

Trenco
818 Soundside Rd
Edenton, NC 27932

Re: 19-011181T
ON TOP BUILDERS/TYLER II

The truss drawing(s) referenced below have been prepared by Truss Engineering Co. under my direct supervision based on the parameters provided by Stock Building Supply.

Pages or sheets covered by this seal: T16144222 thru T16144247

My license renewal date for the state of North Carolina is December 31, 2019.

North Carolina COA: C-0844



January 29, 2019

Albani, Thomas

IMPORTANT NOTE: Truss Engineer's responsibility is solely for design of individual trusses based upon design parameters shown on referenced truss drawings. Parameters have not been verified as appropriate for any use. Any location identification specified is for file reference only and has not been used in preparing design. Suitability of truss designs for any particular building is the responsibility of the building designer, not the Truss Engineer, per ANSI/TPI-1, Chapter 2.

Job	Truss	Truss Type	Qty	Ply	ON TOP BUILDERS/TYLER II	T16144222
19-011181T	A01	ROOF SPECIAL	5	1		

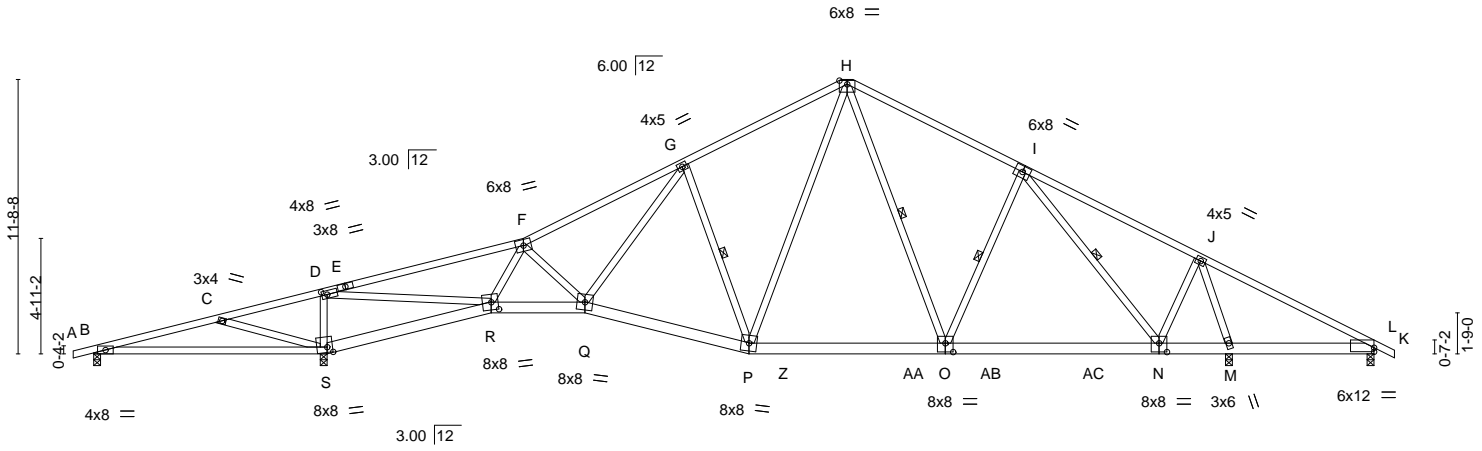
BMC (Middlesex, NC), Middlesex, NC - 27557,

8.220 s Nov 16 2018 MiTek Industries, Inc. Tue Jan 29 15:04:33 2019 Page 1

ID:VCp2mVKmFBYKXoVuqoADn3z_VeO-fLhoclw2NOKjfhRIWydboZAGCnSEAEeWsrKgbkzqSqS

-0-10-8	5-5-11	9-11-8	18-4-0	25-2-14	32-1-12	39-7-8	47-1-3	54-7-8	55-6-0
0-10-8	5-5-11	4-5-13	8-4-8	6-10-14	6-10-14	7-5-12	7-5-12	7-6-5	0-10-8

Scale = 1:98.3



9-9-12	9-9-12	9-11-8	16-11-8	20-11-8	27-11-8	36-4-0	45-5-7	48-7-0	54-7-8
9-9-12	0-1-12	7-0-0	4-0-0	7-0-0	8-4-8	9-1-7	3-1-9	6-0-8	

Plate Offsets (X,Y)-- [D:0-2-12,0-2-0], [K:0-0-0,0-2-1], [N:0-4-0,0-4-8], [O:0-4-0,0-4-8], [R:0-3-8,0-4-0], [S:0-2-12,0-2-12]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.00	TC 0.97	Vert(LL)	0.20	S-V >611	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.53	Vert(CT)	-0.36	S-V >330	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.86	Horz(CT)	0.09	M n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MS					Weight: 337 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP 1650F 1.5E or 2x4 SP No.1 or 2x4 SP SS
BOT CHORD 2x6 SP No.2 *Except*
 B-S: 2x4 SP 1650F 1.5E or 2x4 SP No.1 or 2x4 SP SS
WEBS 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied or 5-4-12 oc bracing.
WEBS 1 Row at midpt G-P, H-O, I-O, I-N

REACTIONS. All bearings 0-3-8.
 (lb) - Max Horz B=153(LC 10)
 Max Uplift All uplift 100 lb or less at joint(s) M except B=-154(LC 6), S=-144(LC 10), K=-260(LC 23)
 Max Grav All reactions 250 lb or less at joint(s) B, K except S=2451(LC 1), M=2183(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-C=-99/1163, C-D=-186/1713, D-F=-1913/144, F-G=-2236/292, G-H=-1413/347,
 H-I=-1290/317, I-J=-514/175, J-K=-53/937
BOT CHORD B-S=-1069/30, R-S=-1797/287, Q-R=-84/2137, P-Q=-30/1503, O-P=0/994, N-O=0/1016,
 K-M=-752/116
WEBS D-R=-258/3519, G-Q=-8/851, C-S=-599/264, D-S=-1645/259, G-P=-819/205, F-R=-787/199,
 F-Q=-321/92, H-P=-108/642, H-O=-79/367, I-O=-72/279, I-N=-1117/106, J-N=0/1099,
 J-M=-2046/205

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33
 - 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) M except (jt=B) B=154, S=144, K=260.



January 29, 2019

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.
 Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

ENGINEERING BY
TRENCO
 A MiTek Affiliate
 818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	ON TOP BUILDERS/TYLER II	T16144223
19-011181T	A02	Roof Special	1	1		

BMC (Middlesex, NC), Middlesex, NC - 27557,

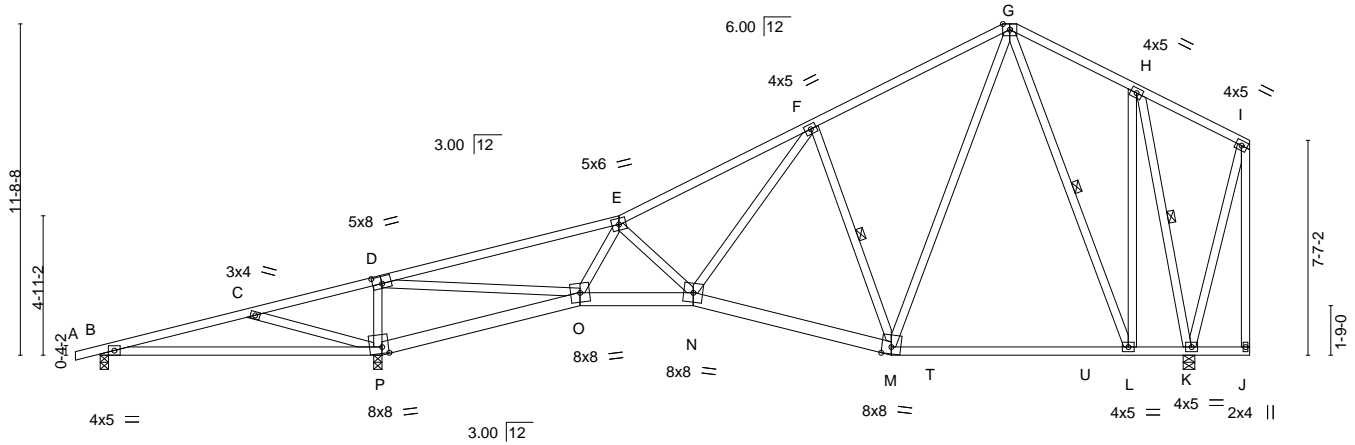
8.220 s Nov 16 2018 MiTek Industries, Inc. Tue Jan 29 15:04:34 2019 Page 1

ID:VCP2mVKmFBYKXoVuqoADn3z_VeO-7YFBq5xh8KTaHq0y4g9qLmjUrBorvkg4V3D8AzqSqR

0-10-8	5-5-11	9-11-8	18-4-0	25-2-14	32-1-12	36-4-0	39-7-8	40-7-8
0-10-8	5-5-11	4-5-13	8-4-8	6-10-14	6-10-14	4-2-4	3-3-8	1-0-0

5x6 =

Scale = 1:81.4



9-9-12	9-11-8	16-11-8	18-4-0	20-11-8	27-11-8	36-4-0	38-8-4	40-7-8
9-9-12	0-1-12	7-0-0	1-4-8	2-7-8	7-0-0	8-4-8	2-4-4	1-11-4

Plate Offsets (X,Y)-- [D:0-4-0,0-3-0], [P:0-2-12,0-2-12]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.00	TC 0.78	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.57	Vert(LL) -0.22 L-M >999 240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.62	Vert(CT) -0.20 P-S >589 180		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-MS	Horz(CT) 0.06 K n/a n/a		
				Weight: 281 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP 1650F 1.5E or 2x4 SP No.1 or 2x4 SP SS
BOT CHORD 2x6 SP No.2 *Except*
 B-P,J-M: 2x4 SP 1650F 1.5E or 2x4 SP No.1 or 2x4 SP SS
WEBS 2x4 SP No.2 *Except*
 I-J: 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: B-P,O-P.
WEBS 1 Row at midpt F-M, G-L, H-K

REACTIONS. (lb/size) B=117/0-3-8, P=1984/0-3-8, K=1190/0-4-15
 Max Horz B=274(LC 9)
 Max Uplift B=-71(LC 6), P=-150(LC 10), K=-15(LC 10)
 Max Grav B=126(LC 21), P=1984(LC 1), K=1190(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-C=-108/625, C-D=-173/1214, D-E=-1460/126, E-F=-1569/218, F-G=-833/256, G-H=-331/206
BOT CHORD B-P=-576/41, O-P=-1215/169, N-O=-121/1583, M-N=-53/951, L-M=-34/429
WEBS D-O=-214/2517, F-N=-32/749, C-P=-599/113, D-P=-1328/264, F-M=-783/222, E-O=-525/139, E-N=-371/114, G-M=-119/713, G-L=-587/52, H-L=0/827, H-K=-1186/28

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) B, K except (jt=lb) P=150.



January 29, 2019

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.
 Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

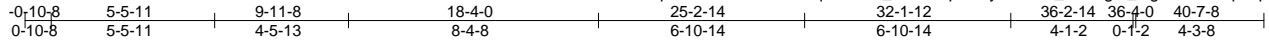
ENGINEERING BY
TRENCO
 A MiTek Affiliate
 818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	ON TOP BUILDERS/TYLER II	T16144224
19-011181T	A03	Roof Special	1	1		

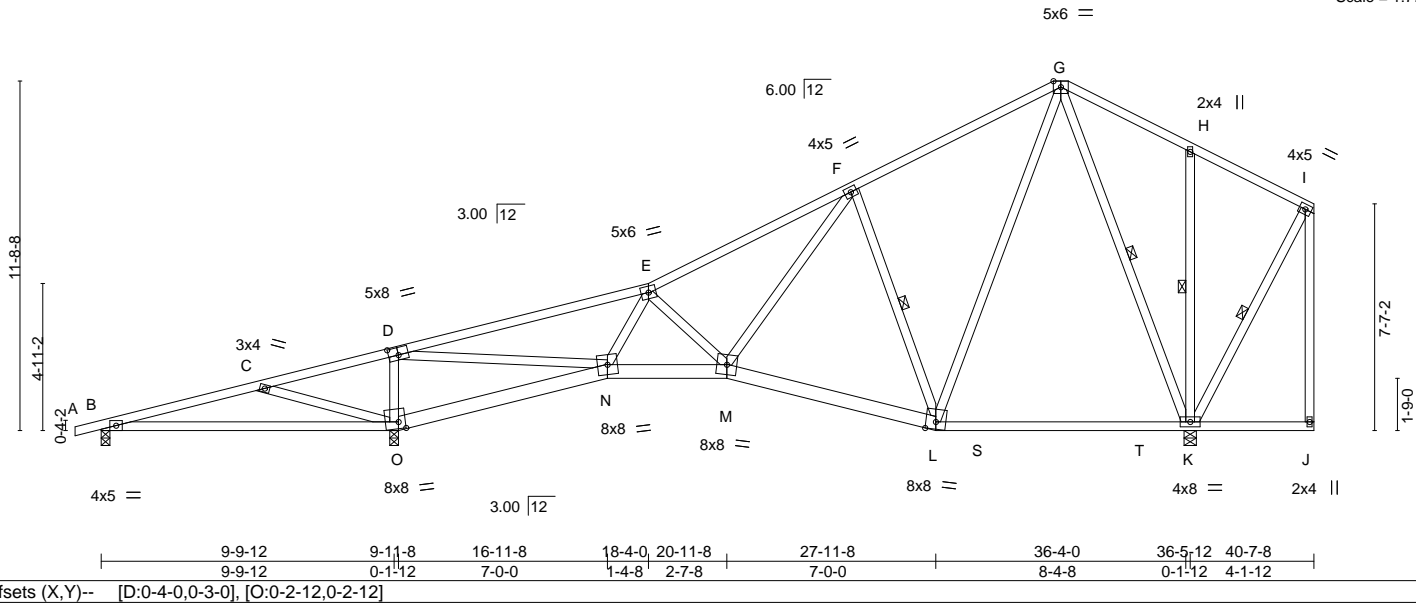
BMC (Middlesex, NC), Middlesex, NC - 27557,

8.220 s Nov 16 2018 MiTek Industries, Inc. Tue Jan 29 15:04:35 2019 Page 1

ID:VCp2mVKmFbYKXoVuqoADn3z_VeO-bkpZ1RyJvebRu_b8dNg3L_GgAb8HeDhpJ9pnczqSqQ



Scale = 1:77.2



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.00	TC 0.75	Vert(LL)	-0.24	K-L	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.56	Vert(CT)	-0.20	O-R	>584		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.57	Horz(CT)	0.06	K	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MS						
								Weight: 268 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP 1650F 1.5E or 2x4 SP No.1 or 2x4 SP SS
BOT CHORD 2x6 SP No.2 *Except*
 B-O, J-L: 2x4 SP 1650F 1.5E or 2x4 SP No.1 or 2x4 SP SS
WEBS 2x4 SP No.2 *Except*
 I-J: 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt F-L, G-K, H-K, I-K

REACTIONS. (lb/size) B=158/0-3-8, O=1839/0-3-8, K=1294/0-4-15
 Max Horz B=274(LC 9)
 Max Uplift B=-65(LC 6), O=-148(LC 10), K=-16(LC 10)
 Max Grav B=159(LC 21), O=1839(LC 1), K=1294(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-C=-113/470, C-D=-173/1049, D-E=-1329/92, E-F=-1371/176, F-G=-659/221
BOT CHORD B-O=-436/23, N-O=-1048/149, M-N=-111/1421, L-M=-58/786, K-L=-46/275
WEBS C-O=-594/112, D-O=-1228/246, D-N=-162/2227, F-M=-23/719, F-L=-770/217, E-N=-444/128, E-M=-392/114, G-L=-117/734, G-K=-824/74, H-K=-294/131

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TC DL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) B, K except (jt=lb) O=148.



January 29, 2019

Job	Truss	Truss Type	Qty	Ply	ON TOP BUILDERS/TYLER II	T16144225
19-011181T	A05	ROOF SPECIAL	2	1		

BMC (Middlesex, NC), Middlesex, NC - 27557,

8.220 s Nov 16 2018 MiTek Industries, Inc. Tue Jan 29 15:04:36 2019 Page 1

ID:VcP2mVKmFbYKXoVuqoAdn3z_VeO-3wNxFnyxgjlW8AKB5BIQBonJ_UCNcYzYpYKC2zqSqP

-0-10-8	5-5-11	9-11-8	18-4-0	25-2-14	32-1-12	39-7-8	47-1-3	54-7-8	55-6-0
0-10-8	5-5-11	4-5-13	8-4-8	6-10-14	6-10-14	7-5-12	7-5-12	7-6-5	0-10-8

Scale = 1:98.3

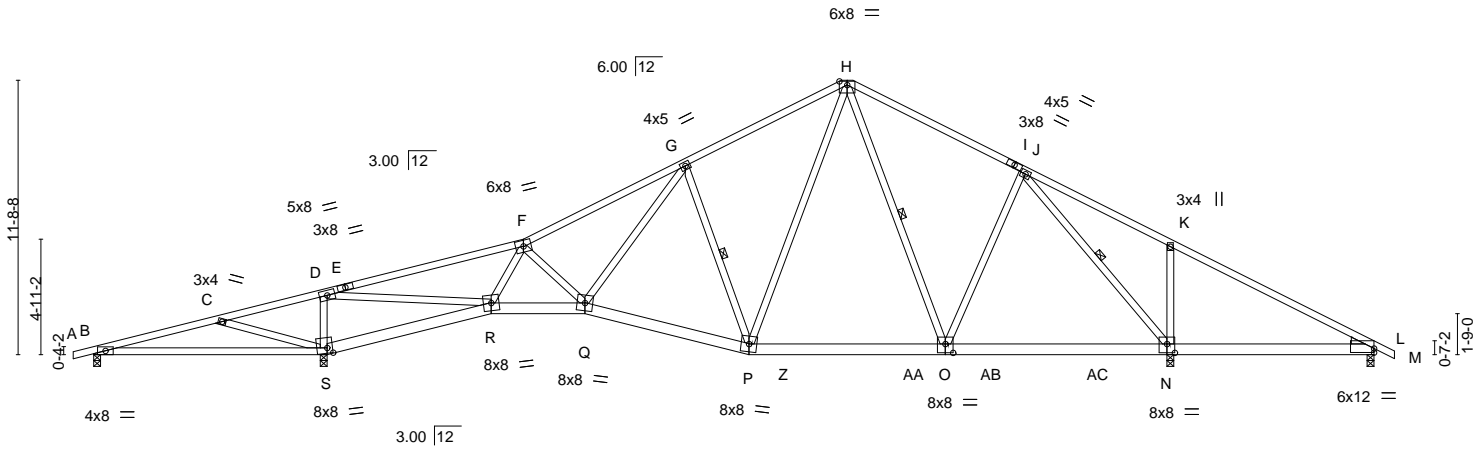


Plate Offsets (X,Y)--	[L:0-0,0-2-1], [N:0-4-0,0-4-8], [O:0-4-0,0-4-8], [S:0-2-12,0-2-12]
-----------------------	--

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.00	TC 0.91	Vert(LL)	0.20	S-V	>609	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.51	Vert(CT)	-0.36	S-V	>328		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.79	Horz(CT)	0.08	N	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MS					Weight: 333 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP 1650F 1.5E or 2x4 SP No.1 or 2x4 SP SS
BOT CHORD 2x6 SP No.2 *Except*
B-S: 2x4 SP 1650F 1.5E or 2x4 SP No.1 or 2x4 SP SS
WEBS 2x4 SP No.2
WEDGE
Right: 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied or 5-8-4 oc bracing.
WEBS 1 Row at midpt G-P, H-O, J-N

REACTIONS. All bearings 0-3-8.
(lb) - Max Horz B=153(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) N, L except B=-149(LC 6), S=-145(LC 10)
Max Grav All reactions 250 lb or less at joint(s) B except S=2301(LC 1), N=2021(LC 2), L=257(LC 22)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-C=-100/1007, C-D=-171/1546, D-F=-1771/142, F-G=-2024/283, G-H=-1230/339,
H-J=-977/293, J-K=0/577, K-L=-61/565
BOT CHORD B-S=-917/29, R-S=-1623/272, Q-R=-86/1963, P-Q=-29/1323, O-P=0/818, N-O=0/635,
L-N=-442/80
WEBS F-R=-704/192, F-Q=-338/93, G-Q=-9/819, C-S=-594/264, D-S=-1541/253, D-R=-241/3214,
G-P=-801/204, H-P=-118/671, J-O=0/487, J-N=-1683/44, K-N=-448/222

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33
 - 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) N, L except (jt=lb) B=149, S=145.



January 29, 2019

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

ENGINEERING BY
TRENCO
A MiTek Affiliate

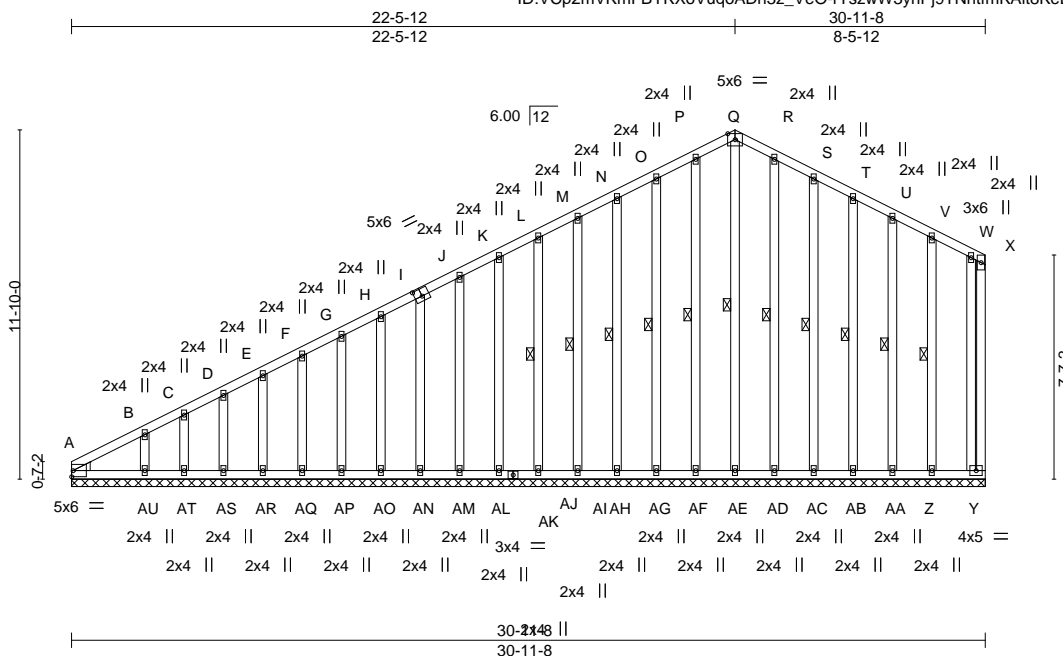
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	ON TOP BUILDERS/TYLER II	T16144228
19-011181T	A07	GABLE	1	1		

BMC (Middlesex, NC), Middlesex, NC - 27557,

8.220 s Nov 16 2018 MiTek Industries, Inc. Tue Jan 29 15:04:44 2019 Page 1

ID:VCp2mVKmFbYKXoVuqoADn3z_VeO-rTszwW3ynPj9TNntfmKAl8KeDKmFOT8O3UIUbzqSqH



Scale = 1:78.1

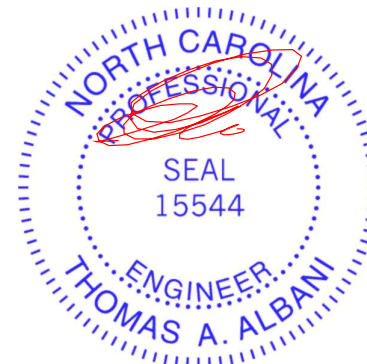
Plate Offsets (X,Y)--	[A:0-0-5,0-0-2], [A:0-5-4,0-0-5], [I:0-3-0,0-3-0]				
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.00	TC 0.25	Vert(LL) n/a - n/a 999	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.09	Vert(CT) n/a - n/a 999		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.09	Horz(CT) -0.00 Y n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S		Weight: 339 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP 1650F 1.5E or 2x4 SP No.1 or 2x4 SP SS	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP 1650F 1.5E or 2x4 SP No.1 or 2x4 SP SS	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.2	WEBS 1 Row at midpt
OTHERS 2x4 SP No.2	
WEDGE	
Left: 2x4 SP No.2	Q-AE, P-AF, O-AG, N-AH, M-AI, L-AJ, R-AD, S-AC, T-AB, U-AA, V-Z

REACTIONS. All bearings 30-11-8.
 (lb) - Max Horz A=267(LC 7)
 Max Uplift All uplift 100 lb or less at joint(s) Y, A, AE, AF, AG, AH, AI, AJ, AL, AM, AN, AO, AP, AQ, AR, AS, AT, AU, AD, AC, AB, AA, Z
 Max Grav All reactions 250 lb or less at joint(s) Y, A, AE, AF, AG, AH, AI, AJ, AL, AM, AN, AO, AP, AQ, AR, AS, AT, AU, AD, AC, AB, AA, Z

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TC DL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33
 - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - Gable requires continuous bottom chord bearing.
 - Gable studs spaced at 1-4-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) Y, A, AE, AF, AG, AH, AI, AJ, AL, AM, AN, AO, AP, AQ, AR, AS, AT, AU, AD, AC, AB, AA, Z.



January 29, 2019

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.
 Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



Job	Truss	Truss Type	Qty	Ply	ON TOP BUILDERS/TYLER II	T16144229
19-011181T	B01	COMMON	5	1		
BMC (Middlesex, NC), Middlesex, NC - 27557,						8.220 s Nov 16 2018 MiTek Industries, Inc. Tue Jan 29 15:04:45 2019 Page 1
0-10-8 0-10-8						ID:VCp2mVKmFBYKXoVuqoADn3z_VeO-JfPL8s3aYir05XM3DUrPH5gORdSG_kWlCjEJ01zqSqG
7-6-3 7-6-3						22-5-5 7-5-9
14-11-12 7-5-9						29-8-8 7-3-3
5x6 =						Scale = 1:52.4

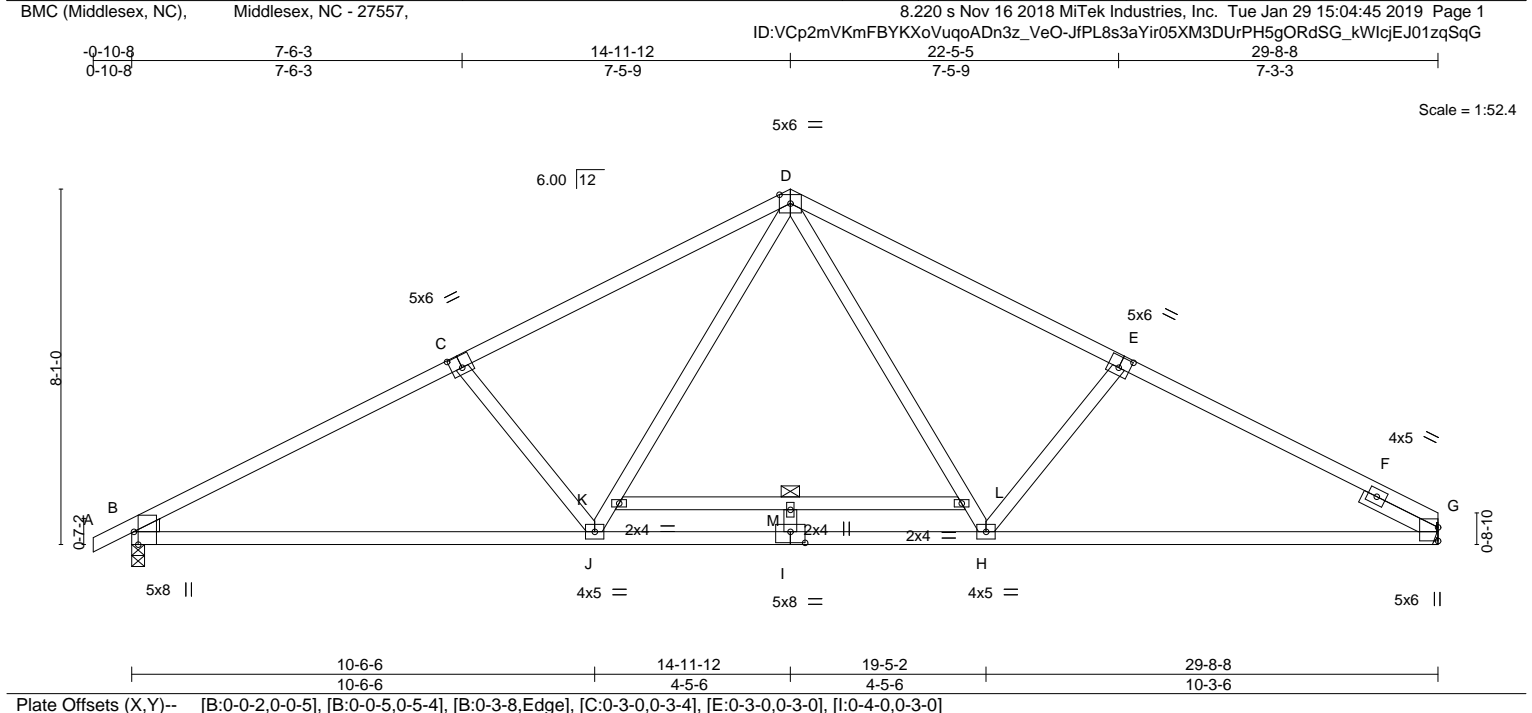


Plate Offsets (X,Y)--	[B:0-0-2,0-0-5], [B:0-0-5,0-5-4], [B:0-3-8,Edge], [C:0-3-0,0-3-4], [E:0-3-0,0-3-0], [I:0-4-0,0-3-0]				
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.00	TC 0.70	Vert(LL) -0.37 I >969 240	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.90	Vert(CT) -0.46 I >776 180		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.55	Horz(CT) 0.09 G n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-MS		Weight: 152 lb	FT = 20%

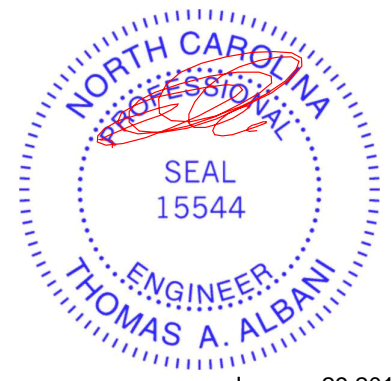
LUMBER-	BRACING-
TOP CHORD 2x4 SP 2400F 2.0E or 2x4 SP DSS or 2x4 SP M 31 *Except* A-C,E-G: 2x4 SP 1650F 1.5E or 2x4 SP No.1 or 2x4 SP SS	TOP CHORD Structural wood sheathing directly applied or 3-5-11 oc purlins.
BOT CHORD 2x4 SP 1650F 1.5E or 2x4 SP No.1 or 2x4 SP SS	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.2	WEBS 1 Row at midpt K-L
WEDGE Left: 2x4 SP No.2	
SLIDER Right 2x4 SP No.3 1-11-0	

REACTIONS. (lb/size) B=1403/0-3-8, G=1352/Mechanical
 Max Horz B=111(LC 10)
 Max Uplift B=44(LC 10), G=30(LC 11)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD B-C=-2336/290, C-D=-2076/292, D-E=-2042/290, E-G=-2265/288
 BOT CHORD B-J=-181/2009, I-J=-33/1459, H-I=-33/1459, G-H=-177/1956
 WEBS C-J=-442/202, J-K=-55/644, D-K=-54/785, D-L=-52/729, H-L=-52/588, E-H=-412/198

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TC DL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) B, G.
 - Load case(s) 1 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.00
 Uniform Loads (plf)
 Vert: A-D=60, D-G=60, N-Q=20, K-L=-40



January 29, 2019

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

ENGINEERING BY
TRENCO
 A MiTek Affiliate

818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	ON TOP BUILDERS/TYLER II	T16144230
19-011181T	B01G	GABLE	1	1		
BMC (Middlesex, NC), Middlesex, NC - 27557,						8.220 s Nov 16 2018 MiTek Industries, Inc. Tue Jan 29 15:04:47 2019 Page 1
-0-10-8 0-10-8						14-11-12 14-11-12
ID:VcP2mVKmFBYKXoVuqoADn3z_VeO-F2X5YX5q4K5kKqVSKuutNWmutQM5SkWa41jP5wzqSqE						29-8-8 14-8-12
Job Reference (optional)						

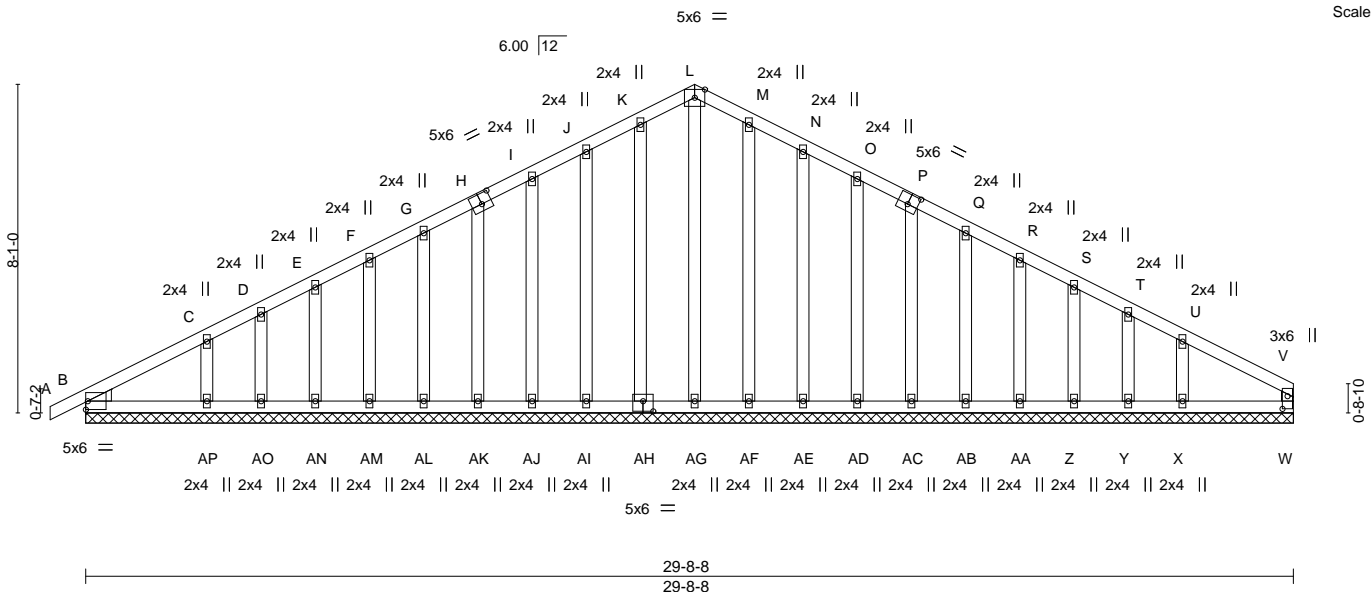


Plate Offsets (X,Y)-- [B:0-0-5,0-0-2], [B:0-5-4,0-0-5], [H:0-3-0,0-3-0], [P:0-3-0,0-3-0], [V:0-3-12,0-1-8], [AH:0-3-0,0-3-0]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.00	TC 0.06	Vert(LL)	-0.00	A	n/r	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.05	Vert(CT)	0.00	A	n/r		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.13	Horz(CT)	0.00	W	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S	Wind(LL)	-0.00	A	n/r	Weight: 220 lb	FT = 20%

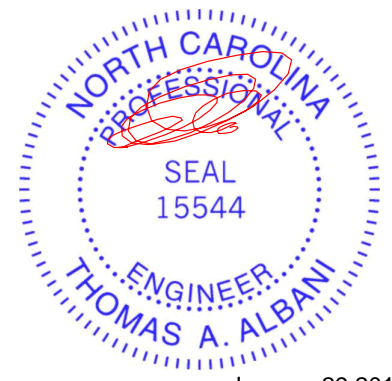
LUMBER-
TOP CHORD 2x4 SP 1650F 1.5E or 2x4 SP No.1 or 2x4 SP SS
BOT CHORD 2x4 SP 1650F 1.5E or 2x4 SP No.1 or 2x4 SP SS
WEBS 2x4 SP No.2
OTHERS 2x4 SP No.2
WEDGE
Left: 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 29-8-8.
(lb) - Max Horz B=107(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) B, AH, AI, AJ, AK, AL, AM, AN, AO, AP, AF, AE, AD, AC, AB, AA, Z, Y, X
Max Grav All reactions 250 lb or less at joint(s) W, B, AG, AH, AI, AJ, AK, AL, AM, AN, AO, AP, AF, AE, AD, AC, AB, AA, Z, Y, X

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCCL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33
 - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - Gable requires continuous bottom chord bearing.
 - Gable studs spaced at 1-4-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) B, AH, AI, AJ, AK, AL, AM, AN, AO, AP, AF, AE, AD, AC, AB, AA, Z, Y, X.



January 29, 2019

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

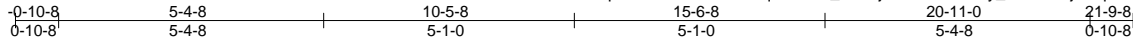
ENGINEERING BY
TRENCO
A MiTek Affiliate

818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	ON TOP BUILDERS/TYLER II	T16144231
19-011181T	C01	COMMON	1	1		
Job Reference (optional)						

BMC (Middlesex, NC), Middlesex, NC - 27557,

8.220 s Nov 16 2018 MiTek Industries, Inc. Tue Jan 29 15:04:48 2019 Page 1



5x6 =

Scale = 1:46.7

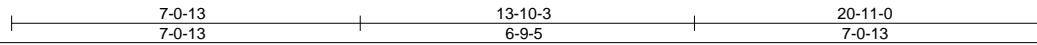
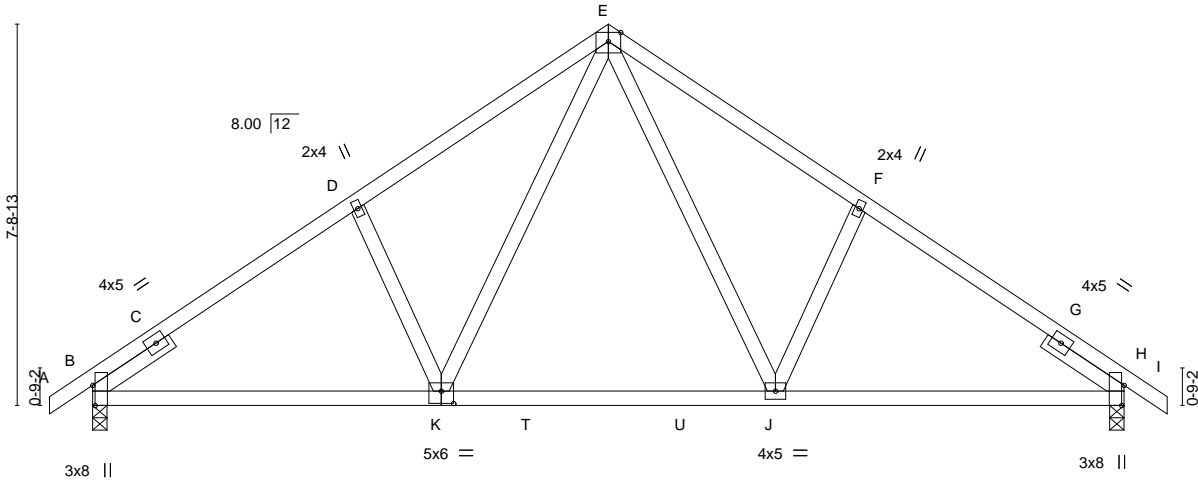


Plate Offsets (X,Y)-- [B:0-4-15,Edge], [H:0-4-15,Edge], [K:0-3-0,0-3-0]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.22	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.00	BC 0.35	Vert(LL) -0.10 J-K >999 240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.10	Vert(CT) -0.16 J-K >999 180		
BCDL 10.0	Rep Stress Incr YES	Matrix-MS	Horz(CT) 0.03 H n/a n/a		
	Code IRC2015/TPI2014			Weight: 113 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP 1650F 1.5E or 2x4 SP No.1 or 2x4 SP SS
BOT CHORD 2x4 SP 1650F 1.5E or 2x4 SP No.1 or 2x4 SP SS
WEBS 2x4 SP No.2
SLIDER Left 2x4 SP No.3 1-11-0, Right 2x4 SP No.3 1-11-0

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-10-9 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) B=889/0-3-8, H=889/0-3-8
Max Horz B=146(LC 9)
Max Uplift B=-26(LC 10), H=-26(LC 11)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-D=-1084/103, D-E=-993/160, E-F=-993/160, F-H=-1084/103
BOT CHORD B-K=-55/922, J-K=0/628, H-J=0/851
WEBS E-J=-69/462, F-J=-260/153, E-K=-69/462, D-K=-260/152

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCCL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) B, H.



January 29, 2019

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



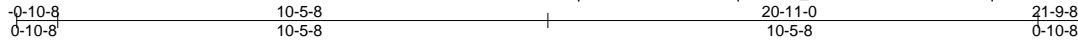
Job	Truss	Truss Type	Qty	Ply	ON TOP BUILDERS/TYLER II	T16144232
19-011181T	C01G	GABLE	1	1		

BMC (Middlesex, NC),

Middlesex, NC - 27557,

8.220 s Nov 16 2018 MiTek Industries, Inc. Tue Jan 29 15:04:49 2019 Page 1

ID:VCP2mVKmFBYKXoVuqoADn3z_VeO-BQ/szD65cxLSa8fqSJwLSxrEZE2qvfJtXKCW9ozqSqC



Scale = 1:49.2

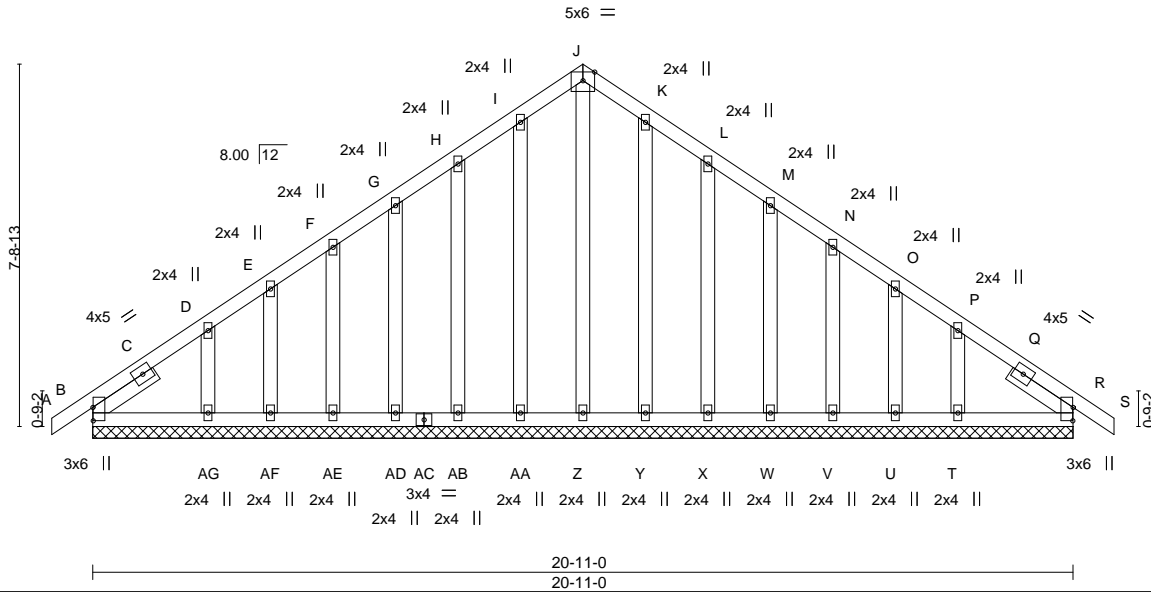


Plate Offsets (X,Y)--	[B:0-3-7,0-0-1], [R:0-3-7,0-0-1]				
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.00	TC 0.05	Vert(LL) 0.00 R n/r 120	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.03	Vert(CT) 0.00 R n/r 120		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.11	Horz(CT) 0.00 R n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) -0.00 S n/r 90	Weight: 160 lb	FT = 20%

LUMBER-
 TOP CHORD 2x4 SP 1650F 1.5E or 2x4 SP No.1 or 2x4 SP SS
 BOT CHORD 2x4 SP 1650F 1.5E or 2x4 SP No.1 or 2x4 SP SS
 OTHERS 2x4 SP No.2
 SLIDER Left 2x4 SP No.3 1-7-3, Right 2x4 SP No.3 1-7-3

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 20-11-0.
 (lb) - Max Horz B=-146(LC 8)
 Max Uplift All uplift 100 lb or less at joint(s) B, AA, AB, AD, AE, AF, AG, Y, X, W, V, U, T
 Max Grav All reactions 250 lb or less at joint(s) B, Z, AA, AB, AD, AE, AF, AG, Y, R, X, W, V, U, T

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33
 - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - Gable requires continuous bottom chord bearing.
 - Gable studs spaced at 1-4-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) B, AA, AB, AD, AE, AF, AG, Y, X, W, V, U, T.



January 29, 2019

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

ENGINEERING BY
TRENCO
 A MiTek Affiliate

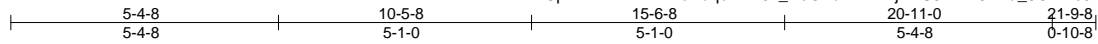
818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	ON TOP BUILDERS/TYLER II	T16144233
19-011181T	C02	COMMON	1	1		

BMC (Middlesex, NC),

Middlesex, NC - 27557,

8.220 s Nov 16 2018 MiTek Industries, Inc. Tue Jan 29 15:04:50 2019 Page 1
 ID:VCp2mVKmFBYKXoVuqoADn3z_VeO-fdDEBZ7jNFUJBIE101Ra_80MZeJ4e6k1m_x4iEzqSqB



5x6 =

Scale = 1:46.3

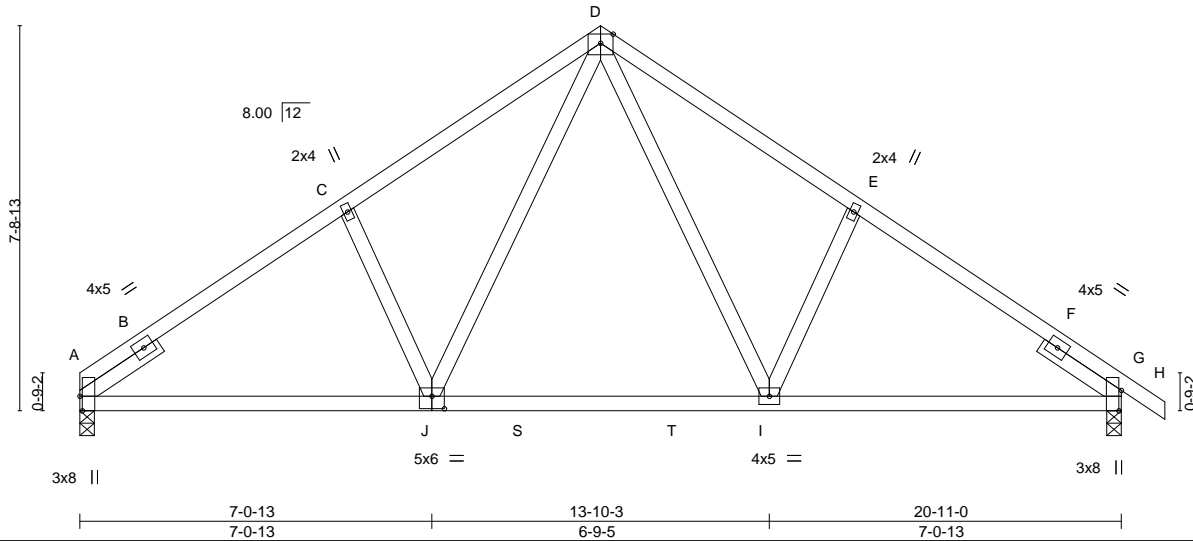


Plate Offsets (X,Y)-- [A:0-3-8,Edge], [G:0-4-15,Edge], [J:0-3-0,0-3-0]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.00	TC 0.22	Vert(LL)	-0.10	I-J	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.35	Vert(CT)	-0.15	I-J	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.10	Horz(CT)	0.03	G	n/a	n/a		
BCDL 10.0	Code	IRC2015/TPI2014	Matrix-MS						Weight: 112 lb	FT = 20%

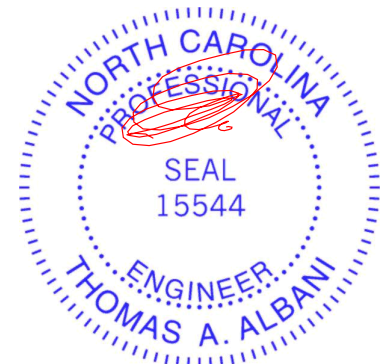
LUMBER-
 TOP CHORD 2x4 SP 1650F 1.5E or 2x4 SP No.1 or 2x4 SP SS
 BOT CHORD 2x4 SP 1650F 1.5E or 2x4 SP No.1 or 2x4 SP SS
 WEBS 2x4 SP No.2
 SLIDER Left 2x4 SP No.3 1-11-0, Right 2x4 SP No.3 1-11-0

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 5-10-8 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) A=836/0-3-8, G=890/0-3-8
 Max Horz A=-142(LC 8)
 Max Uplift A=-14(LC 10), G=-26(LC 11)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD A-C=-1088/105, C-D=-998/162, D-E=-995/161, E-G=-1086/104
 BOT CHORD A-J=-56/927, I-J=0/629, G-I=0/853
 WEBS D-I=-69/462, E-I=-260/153, D-J=-69/467, C-J=-264/153

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCCL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) A, G.



January 29, 2019

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.
 Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

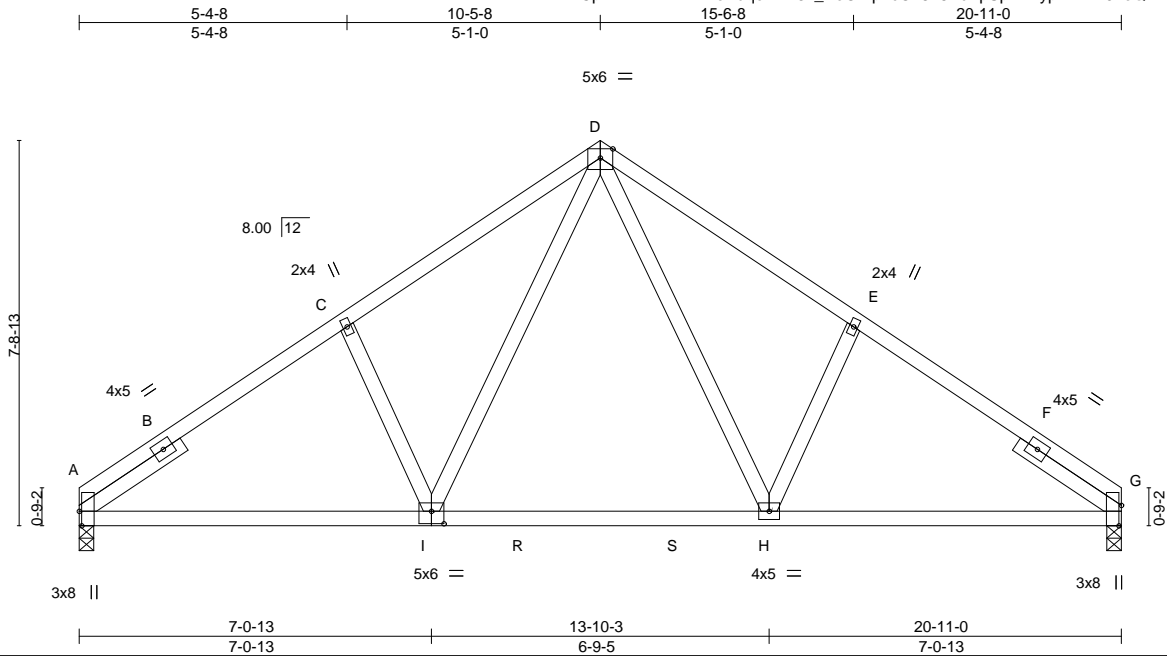
ENGINEERING BY
TRENCO
 A MiTek Affiliate
 818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	ON TOP BUILDERS/TYLER II	T16144234
19-011181T	C03	Roof Special	7	1		
Job Reference (optional)						

BMC (Middlesex, NC),

Middlesex, NC - 27557,

8.220 s Nov 16 2018 MiTek Industries, Inc. Tue Jan 29 15:04:51 2019 Page 1
 ID:VCp2mVKmFbYKXoVuqoADn3z_VeO-7pncOv8L8YcApSpDZkypXMwXJ1eQNZ_A?ehdEhzqSqA



Scale = 1:46.2

Plate Offsets (X,Y)--	[A:0-3-8,Edge], [G:0-4-15,Edge], [I:0-3-0,0-3-0]				
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.00	TC 0.22	Vert(LL) -0.10 H-I >999 240	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.34	Vert(CT) -0.15 H-I >999 180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.10	Horz(CT) 0.02 G n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-MS		Weight: 112 lb	FT = 20%

LUMBER-
 TOP CHORD 2x4 SP 1650F 1.5E or 2x4 SP No.1 or 2x4 SP SS
 BOT CHORD 2x4 SP 1650F 1.5E or 2x4 SP No.1 or 2x4 SP SS
 WEBS 2x4 SP No.2
 SLIDER Left 2x4 SP No.3 2-6-0, Right 2x4 SP No.3 2-6-0

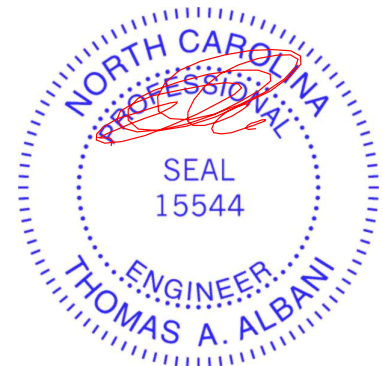
BRACING-
 TOP CHORD Structural wood sheathing directly applied or 5-11-2 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) A=837/0-3-8, G=837/0-3-8
 Max Horz A=-135(LC 6)
 Max Uplift A=-14(LC 10), G=-14(LC 11)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD A-C=-1027/105, C-D=-1001/163, D-E=-1001/163, E-G=-1026/105
 BOT CHORD A-I=-63/922, H-I=0/625, G-H=-22/858
 WEBS D-H=-69/467, E-H=-263/153, D-I=-69/467, C-I=-263/153

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCCL=6.0psf; BCCL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCCL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) A, G.



January 29, 2019

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



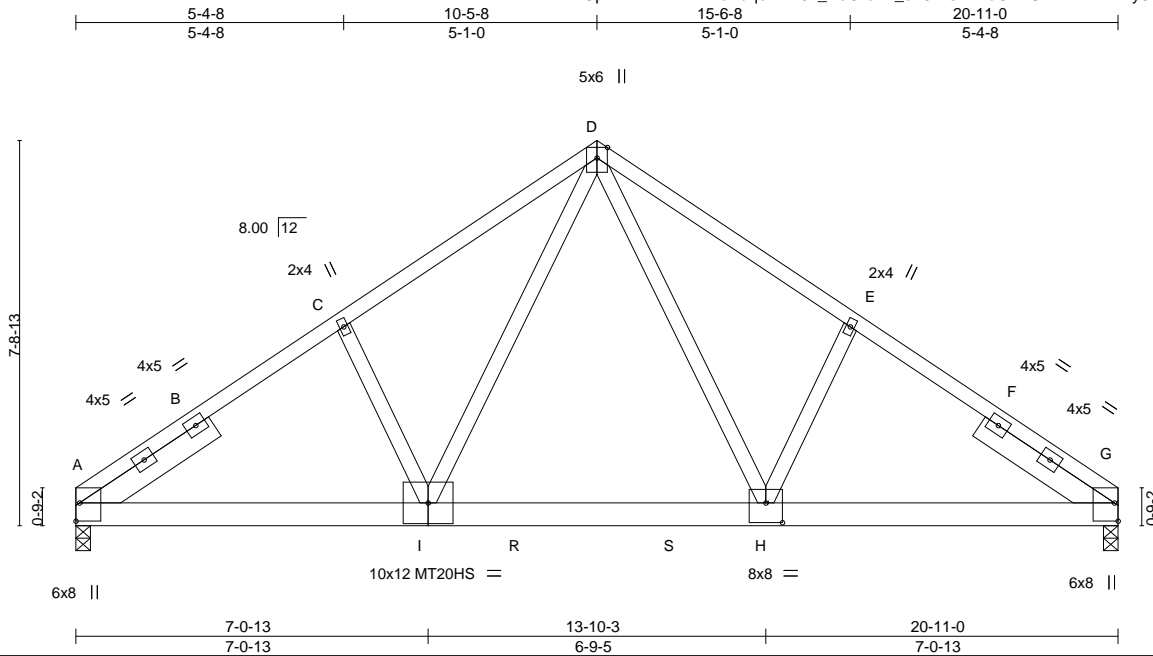
818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	ON TOP BUILDERS/TYLER II	T16144235
19-011181T	C04	Roof Special	1	1		
Job Reference (optional)						

BMC (Middlesex, NC),

Middlesex, NC - 27557,

8.220 s Nov 16 2018 MiTek Industries, Inc. Tue Jan 29 15:04:52 2019 Page 1
 ID:VCp2mVKmFbYKXoVuqoADn3z_VeO-c?K_cF9zvsk1RbOP7ST24ZTXFRvy6vGJDIQAm7zqSq9



Scale = 1:46.2

Plate Offsets (X,Y)--	[A:Edge,0-0-14], [G:Edge,0-0-14], [H:0-4-0,0-4-12]				
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.00	TC 0.85	Vert(LL) -0.12 H-I >999 240	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.64	Vert(CT) -0.25 H-I >971 180	MT20HS	187/143
BCLL 0.0 *	Rep Stress Incr NO	WB 0.55	Horz(CT) 0.03 G n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-MS		Weight: 136 lb	FT = 20%

LUMBER-
 TOP CHORD 2x4 SP 1650F 1.5E or 2x4 SP No.1 or 2x4 SP SS
 BOT CHORD 2x6 SP 2400F 2.0E or 2x6 SP DSS or 2x6 SP M 31
 WEBS 2x4 SP No.2
 SLIDER Left 2x6 SP No.2 3-1-6, Right 2x6 SP No.2 3-1-6

BRACING-
 TOP CHORD Structural wood sheathing directly applied.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) A=3403/0-3-8, G=3403/0-3-8
 Max Horz A=-133(LC 8)
 Max Uplift A=-215(LC 10), G=-215(LC 11)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD A-C=-4058/282, C-D=-3995/339, D-E=-3995/339, E-G=-4058/282
 BOT CHORD A-I=-256/3344, H-I=-110/2327, G-H=-173/3335
 WEBS D-H=-209/2246, D-I=-209/2246

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCCL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33
- All plates are MT20 plates unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) A=215, G=215.
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.00
 Uniform Loads (plf)
 Vert: A-D=-60, D-G=-60, J-N=-270(F=-250)



January 29, 2019

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



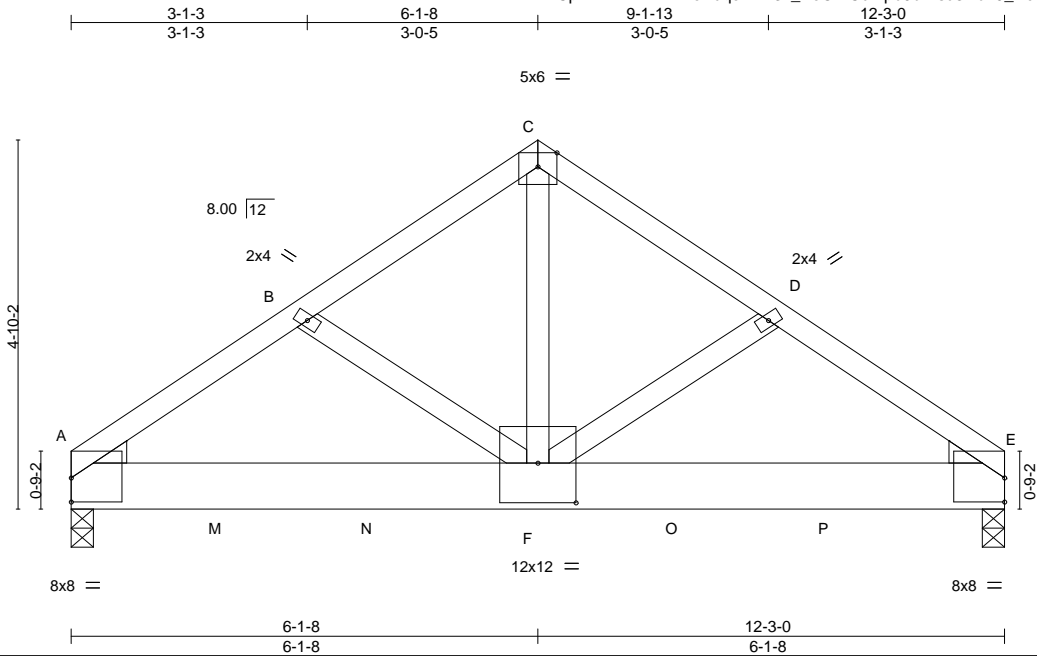
818 Soundside Road
 Edenton, NC 27932

Job 19-011181T	Truss D01	Truss Type COMMON GIRDER	Qty 1	Ply 2	ON TOP BUILDERS/TYLER II	T16144236
-------------------	--------------	-----------------------------	----------	----------	--------------------------	-----------

BMC (Middlesex, NC), Middlesex, NC - 27557,

8.220 s Nov 16 2018 MiTek Industries, Inc. Tue Jan 29 15:04:53 2019 Page 1

ID:VcP2mVKmFBYKXoVuqoADn3z_VeO-4CuMpb9bfAsu3lzbh9_Hcn?tpJyrM8TSyAkJZzqSq8



Scale = 1:30.2

Plate Offsets (X,Y)--	[A:0-0-0,0-3-13], [E:0-0-0,0-3-13], [F:0-6-0,0-6-4]				
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.00	TC 0.16	Vert(LL) -0.04 F-L >999 240	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.40	Vert(CT) -0.08 F-L >999 180		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.57	Horz(CT) 0.01 E n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-MS		Weight: 155 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP 1650F 1.5E or 2x4 SP No.1 or 2x4 SP SS
 BOT CHORD 2x8 SP 2250F 1.9E or 2x8 SP DSS or 2x8 SP SS
 WEBS 2x4 SP No.2
 WEDGE
 Left: 2x4 SP No.3, Right: 2x4 SP No.3

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) A=3928/0-3-8, E=3817/0-3-8
 Max Horz A=79(LC 5)
 Max Uplift A=-276(LC 8), E=-268(LC 9)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD A-B=-4582/347, B-C=-4435/349, C-D=-4435/348, D-E=-4580/347
 BOT CHORD A-F=-304/3791, E-F=-256/3786
 WEBS C-F=-332/4666

NOTES-

- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
 Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
 Bottom chords connected as follows: 2x8 - 2 rows staggered at 0-6-0 oc.
 Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TC DL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.33
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) A=276, E=268.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1353 lb down and 106 lb up at 2-0-0, 1353 lb down and 106 lb up at 4-0-0, 1353 lb down and 106 lb up at 6-0-0, and 1353 lb down and 106 lb up at 8-0-0, and 1353 lb down and 106 lb up at 10-0-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.00



January 29, 2019

Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.
 Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

ENGINEERING BY
TRENCO
 A MiTek Affiliate
 818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	ON TOP BUILDERS/TYLER II	T16144236
19-011181T	D01	COMMON GIRDER	1	2	Job Reference (optional)	

BMC (Middlesex, NC), Middlesex, NC - 27557,

8.220 s Nov 16 2018 MiTek Industries, Inc. Tue Jan 29 15:04:53 2019 Page 2
 ID:VCp2mVKmFBYKXoVuqoADn3z_VeO-4CuMpb9bfAsu3lzbh9_Hcn?tpJyrM8TSyAkJZzqSq8

LOAD CASE(S) Standard

Uniform Loads (plf)

Vert: A-C=-60, C-E=-60, G-J=-20

Concentrated Loads (lb)

Vert: F=-1353(B) M=-1353(B) N=-1353(B) O=-1353(B) P=-1353(B)

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



818 Soundside Road
 Edenton, NC 27932

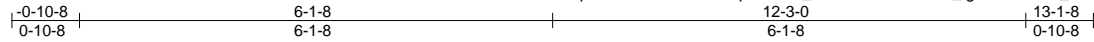
Job	Truss	Truss Type	Qty	Ply	ON TOP BUILDERS/TYLER II	T16144237
19-011181T	D01G	GABLE	1	1		

BMC (Middlesex, NC),

Middlesex, NC - 27557,

8.220 s Nov 16 2018 MiTek Industries, Inc. Tue Jan 29 15:04:54 2019 Page 1

ID:VCp2mVKmFBYKXoVuqoADn3z_VeO-YOSI0xAEQT_IgvYoFtWWW9_Y4TFI6axxchcvHr0zqSq7



5x6 =

Scale = 1:29.8

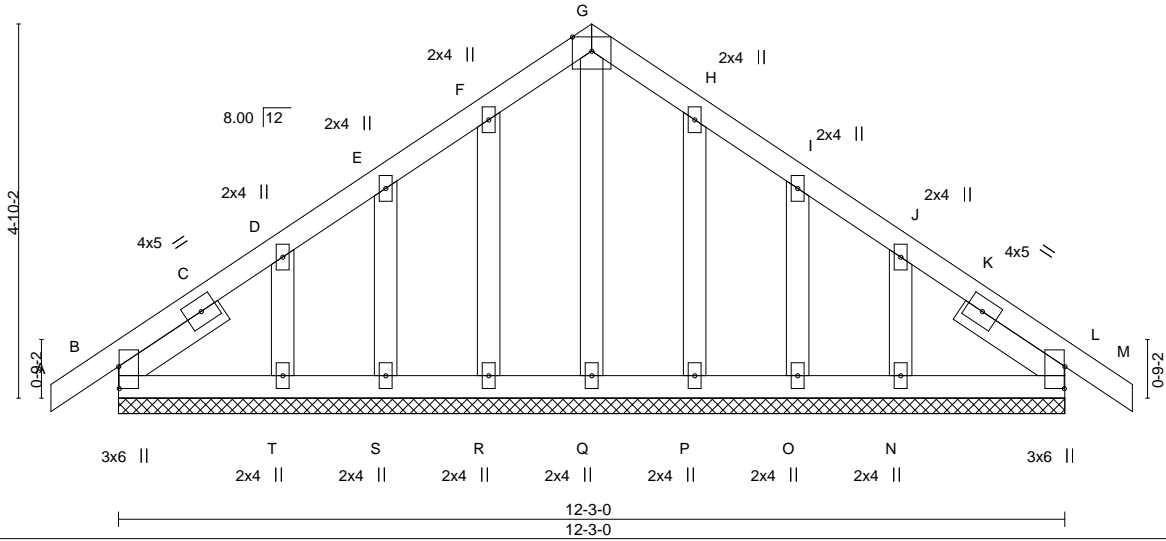


Plate Offsets (X,Y)--	[B:0-3-7,0-0-1], [L:0-3-7,0-0-1]				
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.00	TC 0.04	Vert(LL) -0.00 L n/r 120	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.02	Vert(CT) -0.00 L n/r 120		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.02	Horz(CT) 0.00 L n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) 0.00 L n/r 90	Weight: 77 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP 1650F 1.5E or 2x4 SP No.1 or 2x4 SP SS	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD 2x4 SP 1650F 1.5E or 2x4 SP No.1 or 2x4 SP SS	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
OTHERS 2x4 SP No.2	
SLIDER Left 2x4 SP No.3 1-7-4, Right 2x4 SP No.3 1-7-4	

REACTIONS. All bearings 12-3-0.
 (lb) - Max Horz B=-90(LC 8)
 Max Uplift All uplift 100 lb or less at joint(s) B, R, S, T, P, O, N
 Max Grav All reactions 250 lb or less at joint(s) B, L, Q, R, S, T, P, O, N

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 1-4-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) B, R, S, T, P, O, N.



January 29, 2019

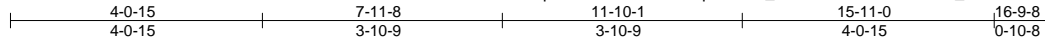
<p>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.</p> <p>Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.</p>	<p>ENGINEERING BY</p> <p>TRENCO</p> <p>A MiTek Affiliate</p> <p>818 Soundside Road Edenton, NC 27932</p>
---	---

Job 19-011181T	Truss E01	Truss Type COMMON	Qty 5	Ply 1	ON TOP BUILDERS/TYLER II T16144238
-------------------	--------------	----------------------	----------	----------	---------------------------------------

BMC (Middlesex, NC), Middlesex, NC - 27557,

Middlesex, NC - 27557,

8.220 s Nov 16 2018 MiTek Industries, Inc. Tue Jan 29 15:04:55 2019 Page 1
ID:VCp2mVKmFBYKXoVuqoADn3z_VeO-0a07EHBsBn6cl37_oa1lhC5Dlf0zJN4mwGfqNSzqSq6



5x6 =

Scale = 1:37.3

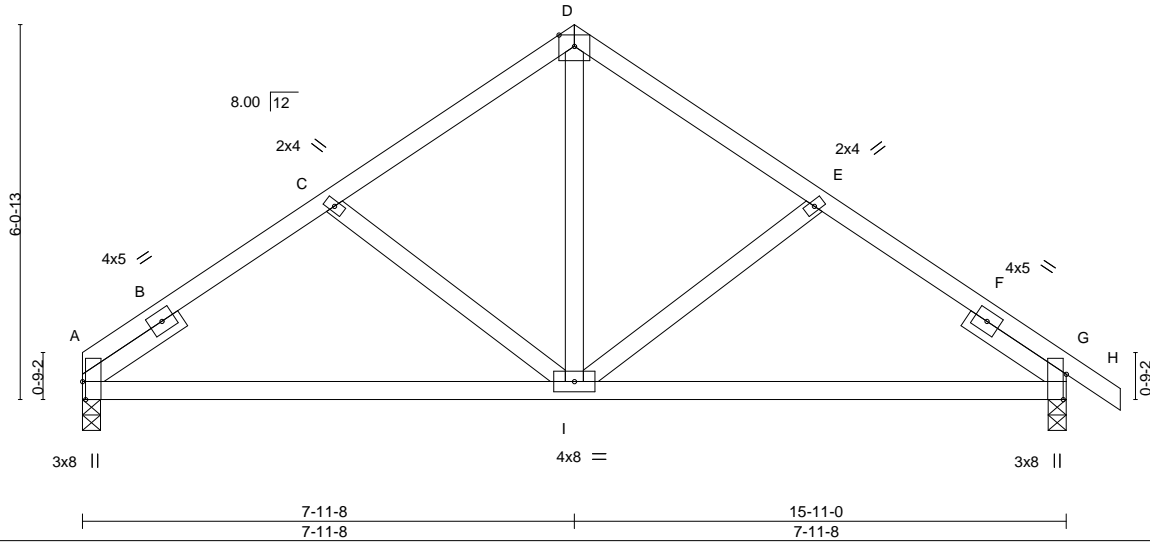


Plate Offsets (X,Y)-- [A:0-3-8,Edge], [G:0-4-15,Edge]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.00	TC 0.13	Vert(LL)	-0.05	I-L >999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.37	Vert(CT)	-0.10	I-L >999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.10	Horz(CT)	0.01	G n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MS						
								Weight: 82 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP 1650F 1.5E or 2x4 SP No.1 or 2x4 SP SS
 BOT CHORD 2x4 SP 1650F 1.5E or 2x4 SP No.1 or 2x4 SP SS
 WEBS 2x4 SP No.2
 SLIDER Left 2x4 SP No.3 1-11-0, Right 2x4 SP No.3 1-11-0

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) A=635/0-3-8, G=691/0-3-8
 Max Horz A=-110(LC 6)
 Max Uplift A=-10(LC 10), G=-23(LC 11)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD A-C=-700/95, C-D=-626/91, D-E=-625/91, E-G=-698/94
 BOT CHORD A-I=-48/624, G-I=0/613
 WEBS D-I=-21/423

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCCL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) A, G.



January 29, 2019

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



818 Soundside Road
 Edenton, NC 27932

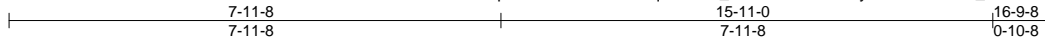
Job 19-011181T	Truss E01G	Truss Type GABLE	Qty 1	Ply 1	ON TOP BUILDERS/TYLER II	T16144239
-------------------	---------------	---------------------	----------	----------	--------------------------	-----------

BMC (Middlesex, NC),

Middlesex, NC - 27557,

8.220 s Nov 16 2018 MiTek Industries, Inc. Tue Jan 29 15:04:56 2019 Page 1

ID:VCp2mVKmFBYKXoVuqoADn3z_VeO-UmaVRCUy5ESwDiAMHY_EPdQz2RY2ryv8wOOvuzqSq5



5x6 =

Scale = 1:37.3

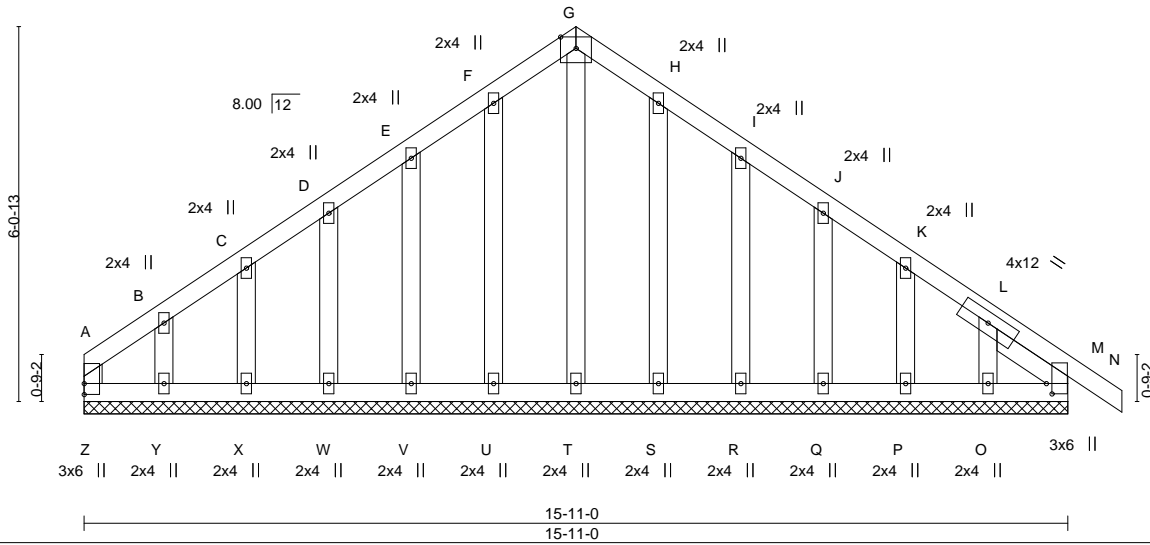


Plate Offsets (X,Y)-- [A:0-1-3,0-1-12], [M:0-2-0,0-1-1], [Z:0-0-0,0-1-12]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.04	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.00	BC 0.02	Vert(LL) -0.00 M n/r 120		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.06	Vert(CT) -0.00 M n/r 120		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.00 M n/a n/a		
	Code IRC2015/TPI2014		Wind(LL) 0.00 M n/r 90	Weight: 107 lb	FT = 20%

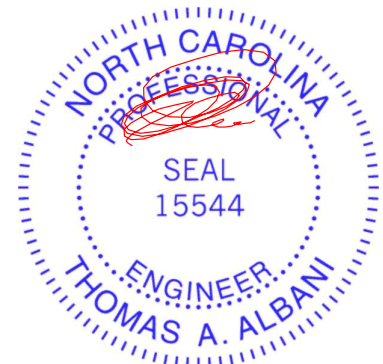
LUMBER-
 TOP CHORD 2x4 SP 1650F 1.5E or 2x4 SP No.1 or 2x4 SP SS
 BOT CHORD 2x4 SP 1650F 1.5E or 2x4 SP No.1 or 2x4 SP SS
 WEBS 2x4 SP No.2
 OTHERS 2x4 SP No.2
 SLIDER Right 2x4 SP No.3 1-5-5

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 15-11-0.
 (lb) - Max Horz Z=118(LC 6)
 Max Uplift All uplift 100 lb or less at joint(s) Z, M, U, V, W, X, Y, S, R, Q, P, O
 Max Grav All reactions 250 lb or less at joint(s) Z, M, T, U, V, W, X, Y, S, R, Q, P, O

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33
 - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - Gable requires continuous bottom chord bearing.
 - Gable studs spaced at 1-4-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) Z, M, U, V, W, X, Y, S, R, Q, P, O.



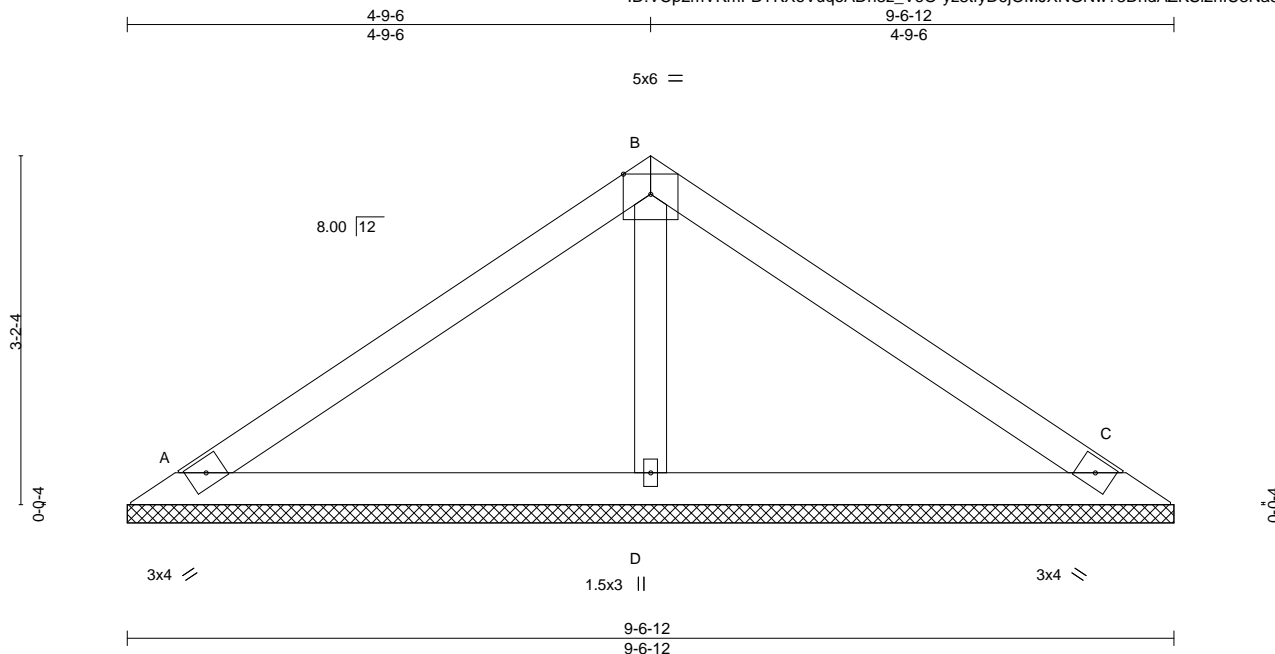
January 29, 2019

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.
 Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

ENGINEERING BY
TRENCO
 A MiTek Affiliate
 818 Soundside Road
 Edenton, NC 27932

Job 19-011181T	Truss VD01	Truss Type GABLE	Qty 1	Ply 1	ON TOP BUILDERS/TYLER II T16144240
BMC (Middlesex, NC), Middlesex, NC - 27557,					Job Reference (optional)

8.220 s Nov 16 2018 MiTek Industries, Inc. Tue Jan 29 15:04:57 2019 Page 1
 ID:VCp2mVKmFbYKXoVuqoADn3z_VeO-yz8fyD6jOMJXNGNw?3DndAZKSI2nIU3Na8xSLzqSq4



Scale = 1:21.0

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.00	TC 0.19	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.14	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.04	Horz(CT)	0.00	C	n/a		
BCDL 10.0	Code	IRC2015/TPI2014	Matrix-S					Weight: 33 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP 1650F 1.5E or 2x4 SP No.1 or 2x4 SP SS
 BOT CHORD 2x4 SP 1650F 1.5E or 2x4 SP No.1 or 2x4 SP SS
 OTHERS 2x4 SP No.2

BRACING-

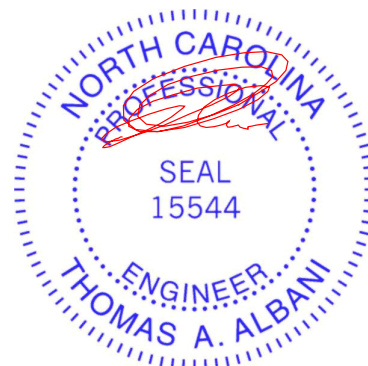
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) A=169/9-6-12, C=169/9-6-12, D=350/9-6-12
 Max Horz A=-55(LC 8)
 Max Uplift A=-14(LC 10), C=-22(LC 11)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33
- Gable requires continuous bottom chord bearing.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) A, C.



January 29, 2019

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

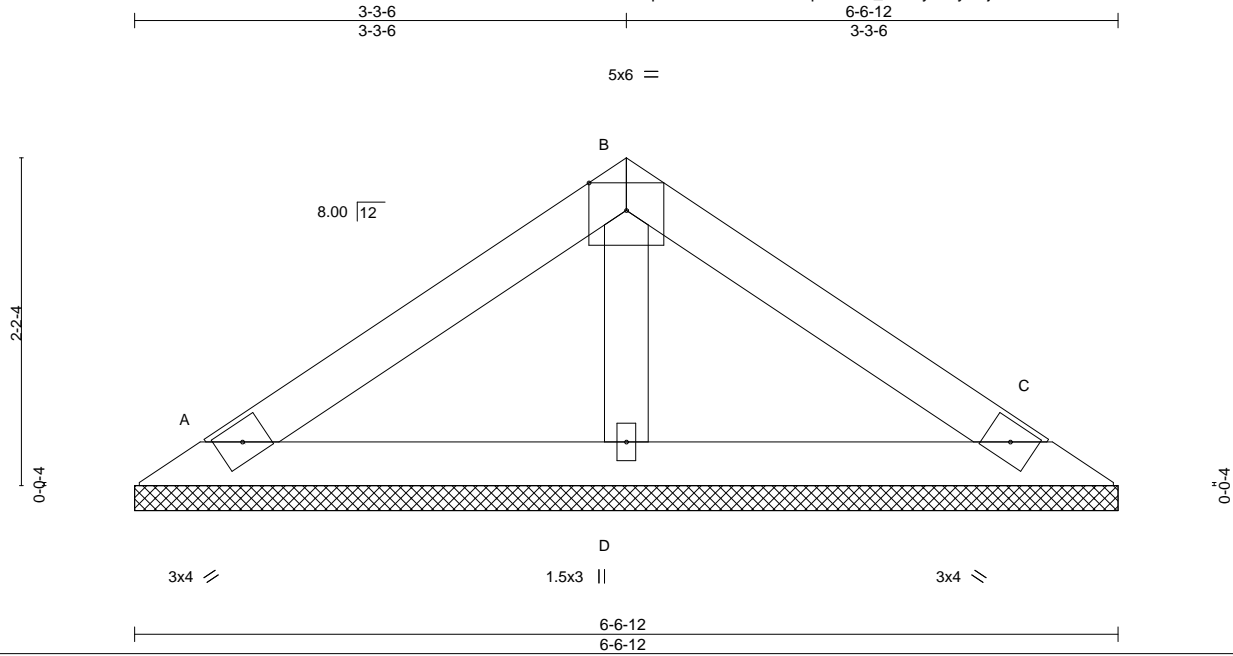
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



818 Soundside Road
 Edenton, NC 27932

Job 19-011181T	Truss VD02	Truss Type GABLE	Qty 1	Ply 1	ON TOP BUILDERS/TYLER II T16144241
BMC (Middlesex, NC), Middlesex, NC - 27557,					Job Reference (optional)

8.220 s Nov 16 2018 MiTek Industries, Inc. Tue Jan 29 15:04:57 2019 Page 1
 ID:VcP2mVKmFbYKXoVuqoADn3z_VeO-yz8fyD6jOMJXNGNw?3DndAafSnFnlo3Na8xSLzqSq4



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.00	TC 0.10	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.06	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.02	Horz(CT)	0.00	C	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-P					Weight: 22 lb	FT = 20%

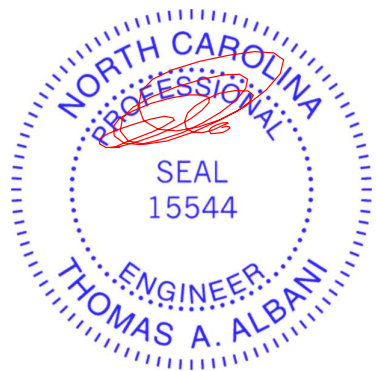
LUMBER-	BRACING-
TOP CHORD 2x4 SP 1650F 1.5E or 2x4 SP No.1 or 2x4 SP SS	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD 2x4 SP 1650F 1.5E or 2x4 SP No.1 or 2x4 SP SS	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
OTHERS 2x4 SP No.2	

REACTIONS. (lb/size) A=121/6-6-12, C=121/6-6-12, D=206/6-6-12
 Max Horz A=-36(LC 6)
 Max Uplift A=-14(LC 10), C=-19(LC 11)


FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33
- Gable requires continuous bottom chord bearing.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) A, C.



January 29, 2019

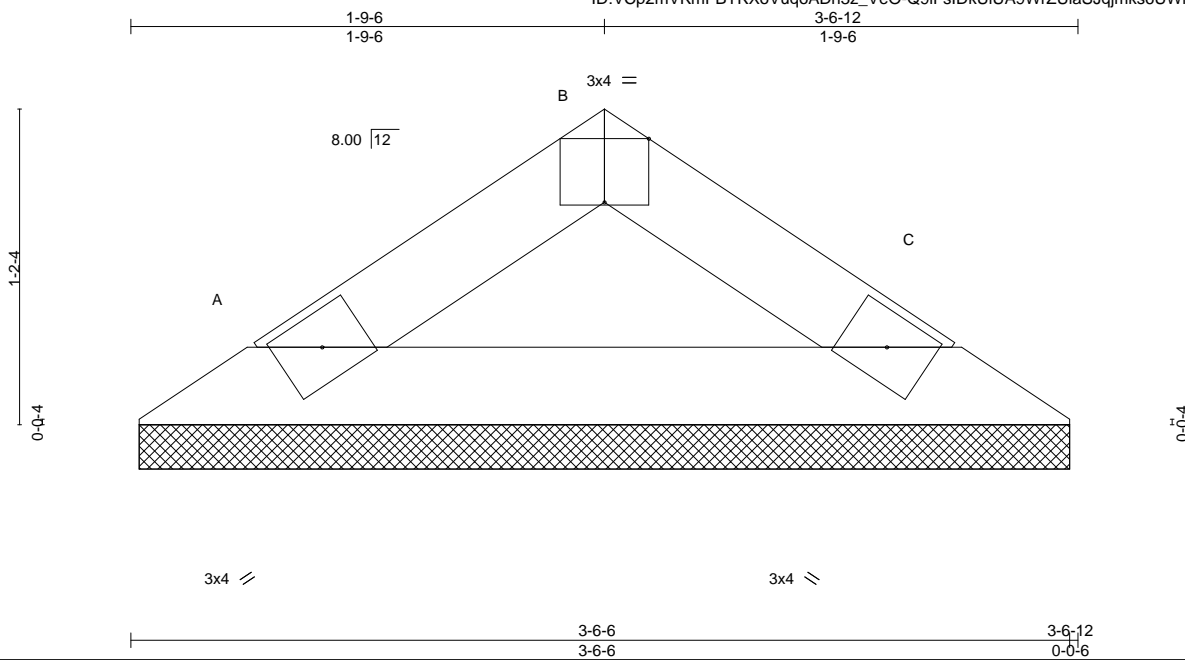
<p>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.</p> <p>Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.</p>	<p>ENGINEERING BY</p>  <p>818 Soundside Road Edenton, NC 27932</p>
---	---

Job	Truss	Truss Type	Qty	Ply	ON TOP BUILDERS/TYLER II	T16144242
19-011181T	VD03	VALLEY	1	1		

BMC (Middlesex, NC),

Middlesex, NC - 27557,

8.220 s Nov 16 2018 MiTek Industries, Inc. Tue Jan 29 15:04:58 2019 Page 1
 ID:VCp2mVKmFbYKXoVuqoADn3z_VeO-Q9iFslDKUiUA9WrZUiaSJqjms6UWIJCcEtV_nzqSq3



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.00	TC 0.02	Vert(LL) n/a	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.06	Vert(CT) n/a		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT) 0.00		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-P		Weight: 10 lb	FT = 20%

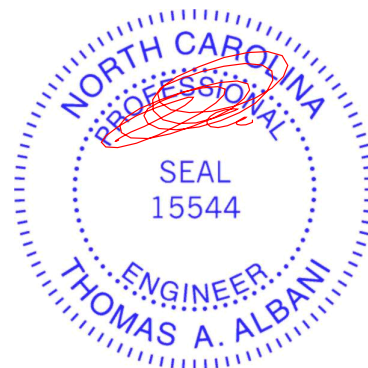
LUMBER-
 TOP CHORD 2x4 SP 1650F 1.5E or 2x4 SP No.1 or 2x4 SP SS
 BOT CHORD 2x4 SP 1650F 1.5E or 2x4 SP No.1 or 2x4 SP SS

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 3-6-12 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) A=104/3-6-0, C=104/3-6-0
 Max Horz A=-17(LC 6)
 Max Uplift A=-2(LC 10), C=-2(LC 11)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33
 - Gable requires continuous bottom chord bearing.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) A, C.



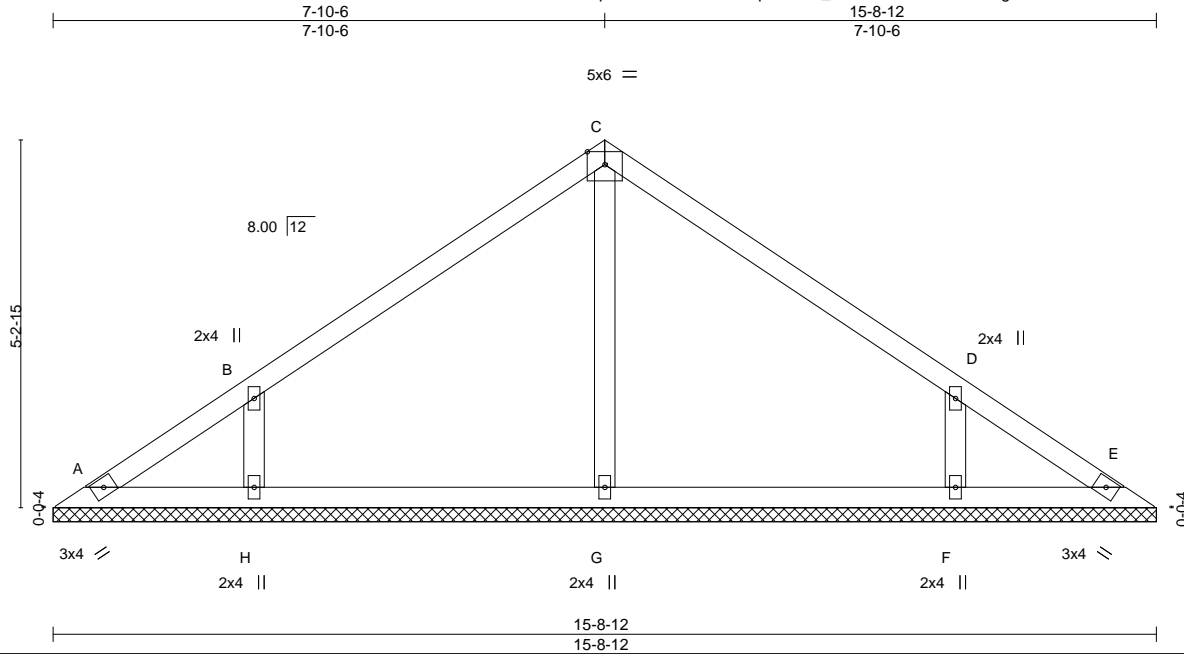
January 29, 2019

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.
 Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

ENGINEERING BY
TRENCO
 A MiTek Affiliate
 818 Soundside Road
 Edenton, NC 27932

Job 19-011181T	Truss VE01	Truss Type GABLE	Qty 1	Ply 1	ON TOP BUILDERS/TYLER II T16144243
BMC (Middlesex, NC), Middlesex, NC - 27557,					Job Reference (optional)

8.220 s Nov 16 2018 MiTek Industries, Inc. Tue Jan 29 15:04:59 2019 Page 1
 ID:VCp2mVKmFBYKXoVuqoADn3z_VeO-uLGe4eEMF0c1ngQ11Q5hs2FuZGQSF4LQud2WDzqSq2



Scale = 1:32.8

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.00	TC 0.21	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.14	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.10	Horz(CT)	0.00	E	n/a		
BCDL 10.0	Code	IRC2015/TPI2014	Matrix-S					Weight: 61 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP 1650F 1.5E or 2x4 SP No.1 or 2x4 SP SS
 BOT CHORD 2x4 SP 1650F 1.5E or 2x4 SP No.1 or 2x4 SP SS
 OTHERS 2x4 SP No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

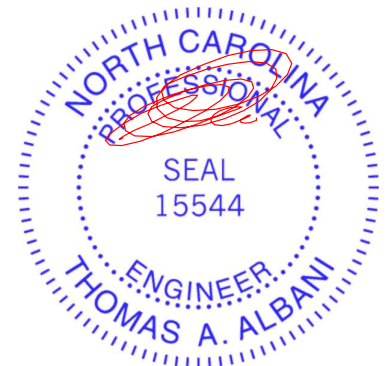
All bearings 15-8-12.
 (lb) - Max Horz A=95(LC 9)
 Max Uplift All uplift 100 lb or less at joint(s) A, E except H=-101(LC 10), F=-101(LC 11)
 Max Grav All reactions 250 lb or less at joint(s) A, E except G=333(LC 1), H=375(LC 17), F=375(LC 18)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

WEBS B-H=-294/153, D-F=-294/153

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCCL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33
- Gable requires continuous bottom chord bearing.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) A, E except (jt=lb) H=101, F=101.



January 29, 2019

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

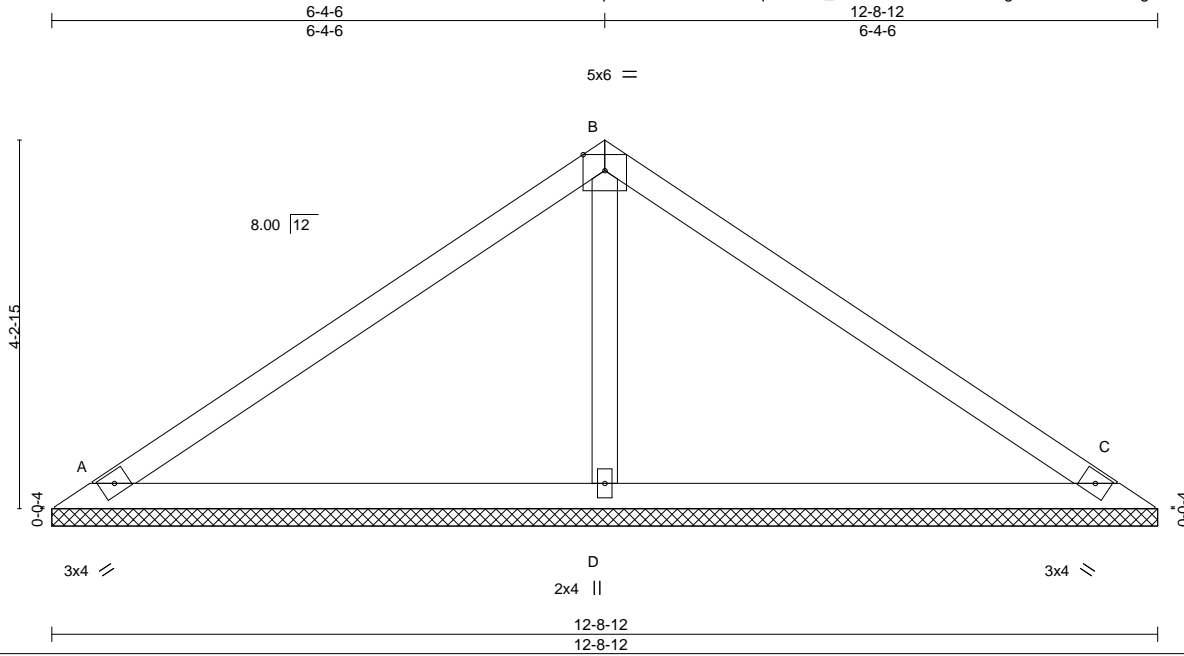
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



818 Soundside Road
 Edenton, NC 27932

Job 19-011181T	Truss VE02	Truss Type GABLE	Qty 1	Ply 1	ON TOP BUILDERS/TYLER II T16144244
BMC (Middlesex, NC), Middlesex, NC - 27557,					Job Reference (optional)

8.220 s Nov 16 2018 MiTek Industries, Inc. Tue Jan 29 15:04:59 2019 Page 1
 ID:VCp2mVKmFBYKXoVuqoADn3z_VeO-uLGe4eEMF0c1ngQl1Q5hs2FsxGPgFBGLqud2WDzqSq2



Scale = 1:26.5

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.37	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.00	BC 0.25	Vert(LL) n/a - n/a 999		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.08	Vert(CT) n/a - n/a 999		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.00 C n/a n/a		
	Code IRC2015/TPI2014			Weight: 45 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP 1650F 1.5E or 2x4 SP No.1 or 2x4 SP SS
 BOT CHORD 2x4 SP 1650F 1.5E or 2x4 SP No.1 or 2x4 SP SS
 OTHERS 2x4 SP No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) A=232/12-8-12, C=232/12-8-12, D=478/12-8-12
 Max Horz A=-76(LC 6)
 Max Uplift A=-20(LC 10), C=-30(LC 11)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 WEBS B-D=-304/67

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TC DL=6.0psf; BC DL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33
- Gable requires continuous bottom chord bearing.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) A, C.



January 29, 2019

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

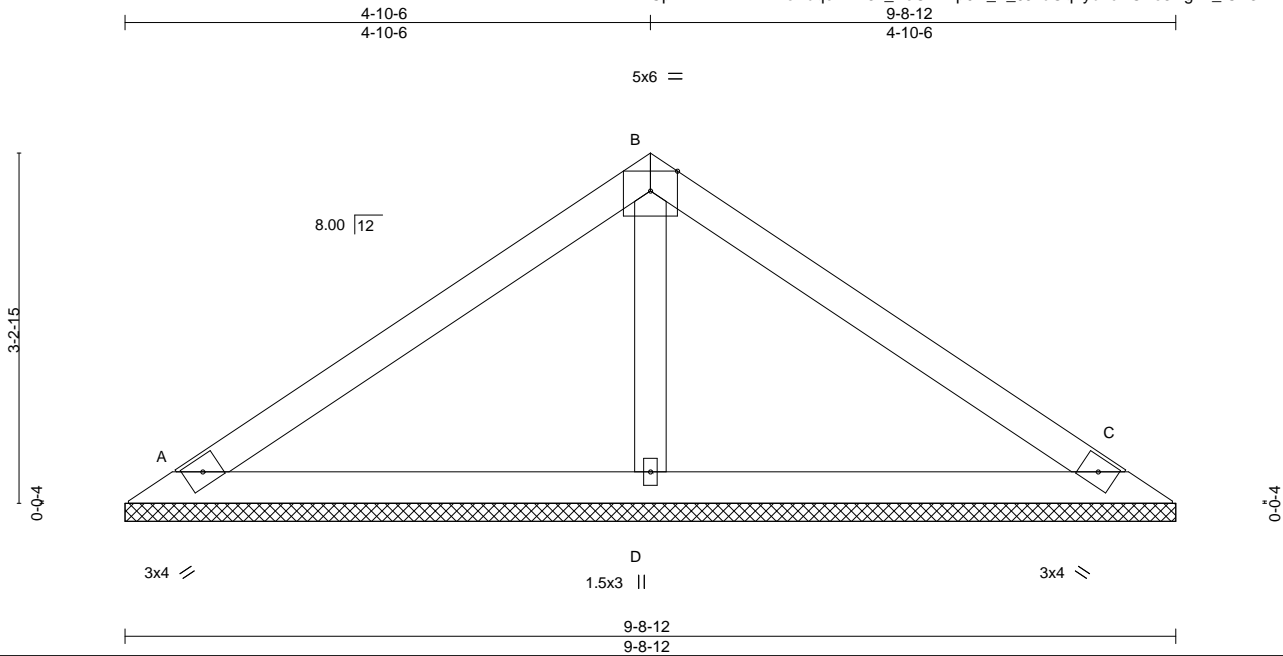
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



818 Soundside Road
 Edenton, NC 27932

Job 19-011181T	Truss VE03	Truss Type GABLE	Qty 1	Ply 1	ON TOP BUILDERS/TYLER II T16144245
BMC (Middlesex, NC), Middlesex, NC - 27557,					Job Reference (optional)

8.220 s Nov 16 2018 MiTek Industries, Inc. Tue Jan 29 15:05:00 2019 Page 1
 ID:VCp2mVKmFBYKXoVuqoADn3z_VeO-NYp0H_F_0JkuOq?yb7cwOFo3Rgmf_fCV3YMb2fzqSq1



Scale = 1:21.3

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP	
TCLL 20.0	Plate Grip DOL	1.00	TC 0.20	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.14	Vert(CT)	n/a	-	n/a	999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.04	Horz(CT)	0.00	C	n/a	n/a		
BCDL 10.0	Code	IRC2015/TPI2014	Matrix-S						Weight: 34 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP 1650F 1.5E or 2x4 SP No.1 or 2x4 SP SS
 BOT CHORD 2x4 SP 1650F 1.5E or 2x4 SP No.1 or 2x4 SP SS
 OTHERS 2x4 SP No.2

BRACING-

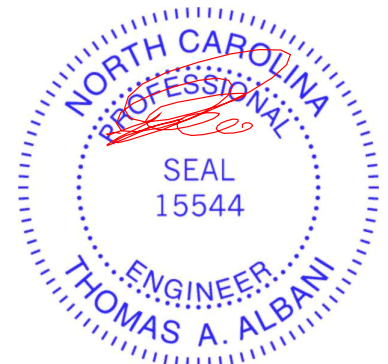
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) A=172/9-8-12, C=172/9-8-12, D=356/9-8-12
 Max Horz A=-57(LC 6)
 Max Uplift A=-15(LC 10), C=-22(LC 11)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33
- Gable requires continuous bottom chord bearing.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) A, C.



January 29, 2019

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



818 Soundside Road
 Edenton, NC 27932

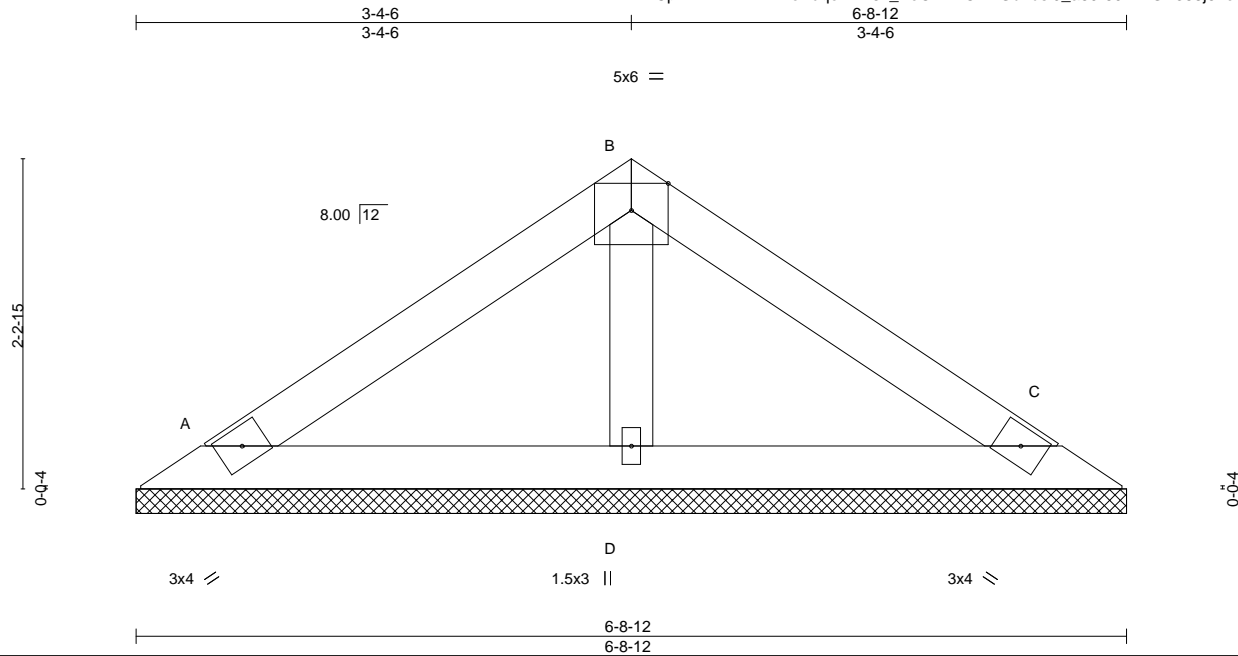
Job	Truss	Truss Type	Qty	Ply	ON TOP BUILDERS/TYLER II	T16144246
19-011181T	VE04	GABLE	1	1		
Job Reference (optional)						

BMC (Middlesex, NC),

Middlesex, NC - 27557,

8.220 s Nov 16 2018 MiTek Industries, Inc. Tue Jan 29 15:05:01 2019 Page 1

ID:VCp2mVKmFBYKXoVuqoADn3z_VeO-rkNOVKGdndsIo_a89r89xTLGX388j6neIC69b6zqSq0



Scale = 1:15.7

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.00	TC 0.11	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.06	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.02	Horz(CT)	0.00	C	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-P					Weight: 23 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP 1650F 1.5E or 2x4 SP No.1 or 2x4 SP SS
 BOT CHORD 2x4 SP 1650F 1.5E or 2x4 SP No.1 or 2x4 SP SS
 OTHERS 2x4 SP No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) A=124/6-8-12, C=124/6-8-12, D=212/6-8-12
 Max Horz A=-37(LC 6)
 Max Uplift A=-14(LC 10), C=-19(LC 11)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33
- Gable requires continuous bottom chord bearing.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) A, C.



January 29, 2019

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



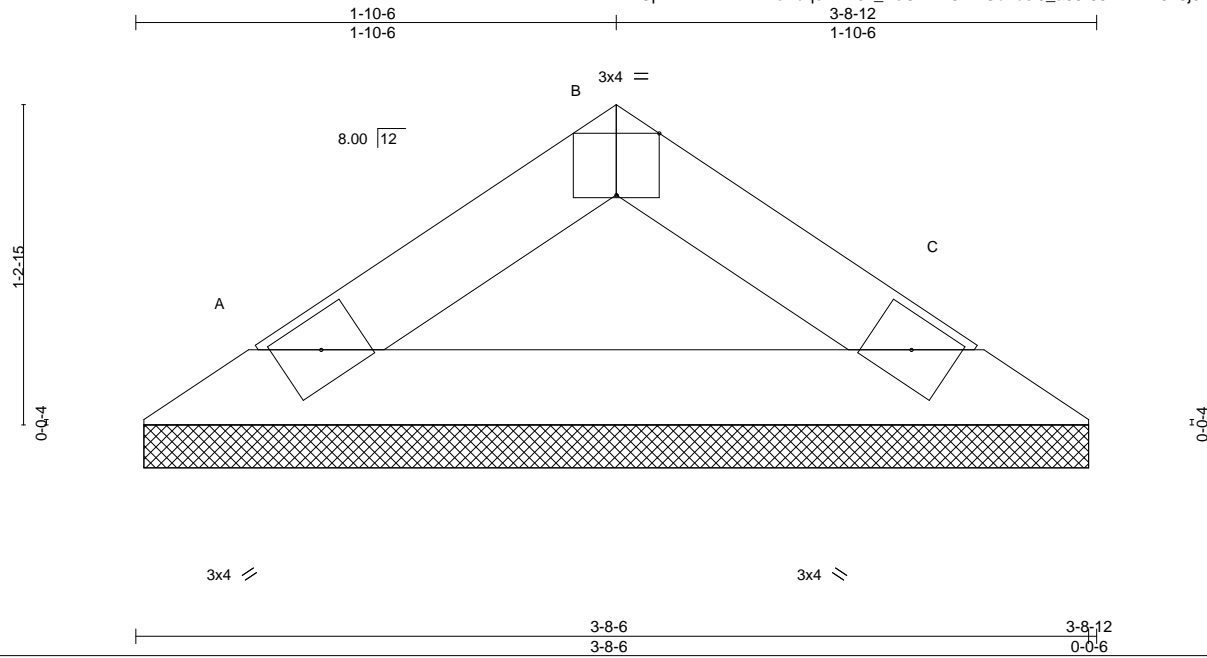
818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	ON TOP BUILDERS/TYLER II	T16144247
19-011181T	VE05	VALLEY	1	1		
Job Reference (optional)						

BMC (Middlesex, NC),

Middlesex, NC - 27557,

8.220 s Nov 16 2018 MiTek Industries, Inc. Tue Jan 29 15:05:01 2019 Page 1
 ID:Vcp2mVKmFBYKXoVuqoADn3z_VeO-rkNOVKGdndsl0_a89r89xTLHw373j62eIC69b6zqSq0



Scale = 1:8.9

Plate Offsets (X,Y)--	[B:0-2-0,Edge]									
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.00		TC 0.02	Vert(LL) n/a	-	-	n/a	999	MT20	244/190
TCDL 10.0	Lumber DOL 1.15		BC 0.07	Vert(CT) n/a	-	-	n/a	999		
BCLL 0.0 *	Rep Stress Incr YES		WB 0.00	Horz(CT) 0.00	C	-	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-P						Weight: 10 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP 1650F 1.5E or 2x4 SP No.1 or 2x4 SP SS
 BOT CHORD 2x4 SP 1650F 1.5E or 2x4 SP No.1 or 2x4 SP SS

BRACING-

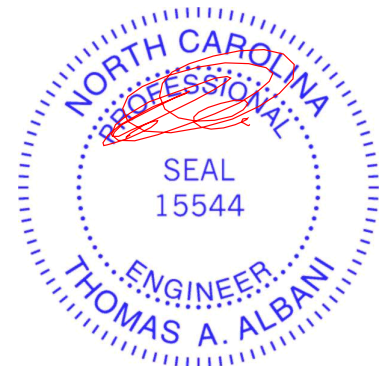
TOP CHORD Structural wood sheathing directly applied or 3-8-12 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) A=111/3-8-0, C=111/3-8-0
 Max Horz A=-18(LC 6)
 Max Uplift A=-2(LC 10), C=-2(LC 11)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33
- Gable requires continuous bottom chord bearing.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) A, C.



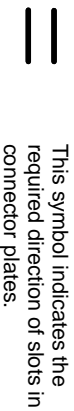
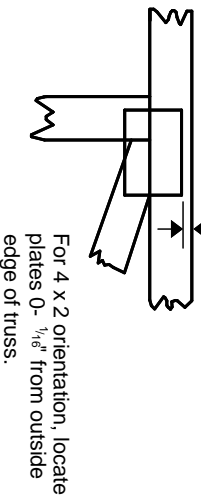
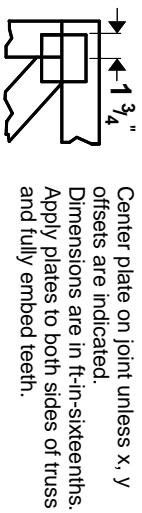
January 29, 2019

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.
 Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



Symbols

PLATE LOCATION AND ORIENTATION



* Plate location details available in **MITrak 20/20 software or upon request.**

PLATE SIZE

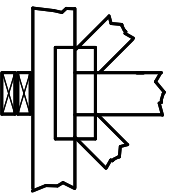
4 X 4

The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING LOCATION



BEARING

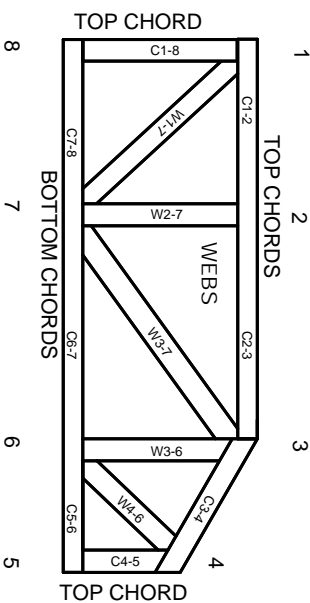


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

Industry Standards:

ANSI/TPI 1: National Design Specification for Metal Plate Connected Wood Truss Construction.
DSB-89: Design Standard for Bracing.
BCSI: Building Component Safety Information, Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses.

Numbering System



JOINTS ARE GENERALLY NUMBERED/LETTERED CLOCKWISE AROUND THE TRUSS STARTING AT THE JOINT FARTHEST TO THE LEFT.

CHORDS AND WEBS ARE IDENTIFIED BY END JOINT NUMBERS/LETTERS.

PRODUCT CODE APPROVALS

ICC-ES Reports:

ESR-1311, ESR-1352, ESR1988
ER-3907, ESR-2362, ESR-1397, ESR-3282

Trusses are designed for wind loads in the plane of the truss unless otherwise shown.

Lumber design values are in accordance with ANSI/TPI 1 section 6.3 These truss designs rely on lumber values established by others.

© 2012 MITteK® All Rights Reserved



MITteK Engineering Reference Sheet: MII-7473 rev. 10/03/2015



General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

1. Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI.
2. Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative Tor I bracing should be considered.
3. Never exceed the design loading shown and never stack materials on inadequately braced trusses.
4. Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
5. Cut members to bear tightly against each other.
6. Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TPI 1.
7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 1.
8. Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
9. Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
10. Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
11. Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
12. Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
13. Top chords must be sheathed or purlins provided at spacing indicated on design.
14. Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
15. Connections not shown are the responsibility of others.
16. Do not cut or alter truss member or plate without prior approval of an engineer.
17. Install and load vertically unless indicated otherwise.
18. Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
19. Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
20. Design assumes manufacture in accordance with ANSI/TPI 1 Quality Criteria.